LAN Phone 0399 User Manual

V.102

Aug-23-2007

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1 Introduction

This user manual is tailored for the LAN Phone 0399, which will explain the keypad instructions, web configurations, and Telnet command line configurations. Before using the LAN Phone 0399, some setup processes are required to make the LAN Phone 0399 work properly. Please refer to the Setup Menu for further information.

1.1 Hardware Overview

The LAN Phone 0399 has the following interfaces for Networking, telephone interface, LED indication, and power connector.

1.1.1 Two RJ-45 Networking interface, these two interfaces support 10/100Mps Fast Ethernet. You can connect one RJ-45 Fast Ethernet port to the ADSL or Switch, and connect the other one to your computer.

1.1.2 LED Indication: There is one LED indicator in the LAN Phone 0399 to show the function status, such as speaker phone, register, incoming call etc.

1.2 Software Overview

Network Protocol	**Tone**
• SIP v1 (RFC2543), v2(RFC3261) • IP/TCP/UDP/RTP/RTCP • IP/ICMP/ARP/RARP/SNTP • TFTP Client/DHCP Client/ PPPoE Client • Telnet/HTTP Server • DNS Client	• Ring Tone • Ring Back Tone • Dial Tone • Busy Tone • User Programming Tone
	Phone Function
Codec	• Volume Adjustment • Speed dial, Phone book • Flash • Speaker Phone
• G.711: 64k bit/s (PCM) • G.723.1: 6.3k / 5.3k bit/s • G.726: 16k / 24k / 32k / 40k bit/s (ADPCM) • G.729A: 8k bit/s (CS-ACELP) • G.729B: adds VAD & CNG to G.729	**IP Assignment**
	• Static IP • DHCP • PPPoE
Voice Quality	
• VAD: Voice activity detection • CNG: Comfortable noise generator • LEC: Line echo canceller • Packet Loss Compensation • Adaptive Jitter Buffer	**Security**
	• HTTP 1.1 basic/digest authentication for Web setup • MD5 for SIP authentication (RFC2069/ RFC 2617)
	QoS
Call Function	• ToS field
• Call Hold • Call Waiting • Call Forward • Caller ID • 3-way conference	**NAT Traversal**
	• STUN
	Configuration
DTMF Function	• Web Browser • Telnet • Keypad
• In-Band DTMF • Out-of Band DTMF • SIP Info	**Firmware Upgrade**
SIP Server	

• Registrar Server (three SIP account) • Outbound Proxy	• TFTP • HTTP • FTP

2 Keypad interface for IP Phone demo system

2.1 Keypad description

Key Name	Description	Note
1	“1”, “-“, “,”, “!”, “?”	
2	“2”, “a”, “b”, “c”, “A”, “B”, “C”	
3	“3”, “d”, “e”, ”f”, “D”, “E”, “F”	
4	“4”, “g”, “h”, “I”, “G”, “H”, “I”	
5	“5”, “j”, “k”, “l”, “J”, “K”, “L”	
6	“6”, “m”, “n”, “o”, “M”, “N”, “O”	
7	“7”, “p”, “q”, “r”, “s”, “P”, “Q”, “R”, ‘S”	
8	“8”, “t”, “u”, “v”, “T”, “U”, “V”	
9	“9”, “w”, “x”, “y”, “z”, “W”, “X”, “Y”, “Z”	
0	“0”, “space”	
*	“*”, “•”, “:”, “@”	
#	Start the dialing process.	開始撥號鍵
Conf	This is the three way conference function.	三方通話
Trans	Transfer calls to other phone numbers.	轉接鍵
Redial	Redial the previous number that was keyed in.	上一通重播鍵
Hold	This is the “HOLD” function that holds the conversation channel.	通話保留鍵
Line1~Line3	The 3 separate lines that the phone can accommodate.	3 線對外撥號
MENU	Enters the Menu screen, IP Phone configuration options are listed here.	菜單
VMS	This is the “Voice Mail” function.	語音留言
CALL IN	Displays the incoming call list.	來電紀錄
CALL OUT	Displays the outgoing call list.	去電紀錄
DND	This is the “Reject” function used to block all incoming calls.	拒接所有來電
FORWARD	This is the “Forward” function; forwarding options can be configured here.	來電轉移
SPEED	This is the “Speed Dial” function.	快速撥號
PHONE B O O K	This is the “Phone Book” function.	電話簿
Mute	This is the “Mute” function.	靜音鍵
C	This is the “Delete” button, used to delete the number dialed or alphabets keyed.	刪除鍵
OK	This is the “OK” button, used as an enter button to accept settings in the LED user interface.	設定確認鍵
UP/DOWN	Up↑ and Down↓ keys used to navigate the user interface.	上下鍵
LEFT/RIGHT	Left← and Right→ keys used to navigate the user interface.	左右鍵

SPK	This is the Speaker Phone.	免提鍵
Volume -/+	Volume buttons used to increase/decrease the volume that is heard from the phone and speaker phone.	音量鍵

2.2 Keypad Function and Setting List

Press **MENU** to access it and view the list from the LCD panel.

2.2.1 Phone Book

2.2.1.1 Search: Search entries in the phone book. 搜尋電話簿清單

2.2.1.2 Add entry: Add a new phone number to the phone book. 加入新的電話號碼

2.2.1.3 Speed dial: Add a speed dial phone number to the speed dial list. 加入新的速撥號碼

2.2.1.4 Erase all: Erase all the phone numbers in the Phone Book. 刪除整個電話簿

2.2.2 Call history

2.2.2.1 Incoming calls: Show all incoming calls. 顯示所有來電

2.2.2.2 Dialed numbers: Show all dialed calls. 顯示所有已撥號

2.2.2.3 Erase record: Delete call history. 刪除通話紀錄

1. All: Delete all call histories. 刪除所有通話紀錄
2. Incoming: Delete all incoming calls. 刪除所有來電紀錄
3. Dialed: Delete all dialed out calls. 刪除所有撥號紀錄

2.2.3 Phone setting

2.2.3.1 Call forward

2.2.3.1.1 All Forward. 所有來電轉接

1. Activation: To Enabled/Disabled this function.
2. Number: The speed dial number that the call will be forward to.

2.2.3.1.2 Busy Forward. 忙線時來電轉接

1. Activation: To Enabled/Disabled this function.
2. Number: The speed dial number that the call will be forward to.

2.2.3.1.3 No Answer Forward. 無人接聽時來電轉接

1. Activation: To Enabled/Disabled this function.
2. Number: The speed dial number that the call will be forward to.

2.2.3.1.4 Ring Timeout: Set the number of ring back tones that will be heard before the no answer forward function will take place, e.g. if this option is set at 2, the phone will ring twice, if no one answers the phone by that period, the no answer forward function will forward the phone call to the number specified by the user.

2.2.3.2 Do Not Disturb

1.Always: Block all incoming calls - 拒接所有來電

2.By Period: Block all incoming calls during a certain period 一段時間拒接所有來電

3.Period Time: Set the start time and end time when incoming calls will be blocked

2.2.3.3 Alarm setting

1. Activation: Enable/Disable the alarm clock 啟動/關閉 鬧鈴功能
2. Alarm time: Specify the alarm time.

2.2.3.4 Date/Time setting: Date and Time Setting. 日期時間設定功能

2.2.3.4.1 Date & Time: Set the IP Phone Date and Time. 修改日期時間

2.2.3.4.2 SNTP setting
2.2.3.4.2.1 SNTP : Enabled / Disable SNTP. 啓動/ 關閉 網路時間伺服器
2.2.3.4.2.2 Primary SNTP: Set Primary SNTP server IP address. 第一網路時間伺服器
2.2.3.4.2.3 Secondary SNTP: Set Secondary SNTP server IP address. 第二網路時間伺服器
2.2.3.4.2.4 Time zone: Set Time zone. 時區設定
2.2.3.4.2.5 Adjustment Time: Set adjustment time period. 自動對時設定

2.2.3.5 Volume and Gain
2.2.3.5.1 Handset volume: Set Handset volume from 0~15 (max.) for you to hear. 話筒音量調整
2.2.3.5.2 Speaker volume: Set Spearer phone volume from 0~15 (max.) for you to hear. 免持聽筒音量調整
2.2.3.5.3 Handset Gain: Set Handset Gain from 0~15 (max.) for the other site to haer. 話筒傳出音量調整
2.2.3.5.4 Speaker Gain: Set Spearer phone Gain from 0~15 (max.) for the other site to haer. 免持聽筒傳出音量調整

2.2.3.6 Ringer
2.2.3.6.1 Ringer volume: Ringer volume setting from 0~15 (max.). 鈴聲音量調整
2.2.3.6.2 Ringer type: Ringer tone selection from 1~4. 鈴聲旋律選擇

2.2.3.7 Auto Dial: Set Auto Dial time from 3~9 seconds.

2.2.4 Network
2.2.4.1 WAN Setup
2.2.4.1.1 IP Type
1. Fixed IP client: 以手動方式設定網路地址
2. DHCP client: 以 DHCP 方式取得網路地址
3. PPPoE client: 以 PPPoE 方式取得網路地
2.2.4.1.2 Fixed IP setting
2.2.4.1.2.1 Host IP: 此話機之網路地址設定
2.2.4.1.2.2 Network mask: 網路遮罩設定
2.2.4.1.2.3 Gateway IP: 網關IP地址設定
2.2.4.1.3 PPPoE setting
2.2.4.1.3.1 User name: PPPoE使用者名稱設定
2.2.4.1.3.2 Password: PPPoE使用者密碼設定

2.2.4.2 LAN Setup
1. Bridge: LAN 不會分配虛擬 IP 給串接的設備.
2. NAT: 分配虛擬 IP 給接在ＬＡN 的設備

2.2.4.3 DNS
2.2.4.3.1 Primary DNS: 第一DNS伺服器地址設定
2.2.4.3.2 Secondary DNS: 第二DNS伺服器地址設定

2.2.4.4 ＶＬＡＮ
2.2.4.4.1 Activation
2.2.4.4.2 VID
2.2.4.4.3 Priority
2.2.4.4.4 CFI

2.2.4.5 Status: Show IP address and MAC address, 網路設定狀況, 顯示IP地址及MAC地址

2.2.5 SIP Settings

If you want to use keypad to set the SIP setting, you have to go to item 7 *(Administrator)* System Authentication to input the password, or you can not change the SIP setting.

2.2.5.1 Service domain

2.2.5.1.1 First realm

2.2.5.1.1.1 Activation: 第一SIP伺服器啓動/停止
2.2.5.1.1.2 User name: SIP使用者名稱設定
2.2.5.1.1.3 Display name: SIP顯示名稱設定
2.2.5.1.1.4 Register name: SIP登錄名稱設定
2.2.5.1.1.5 Register password: SIP登錄密碼設定
2.2.5.1.1.6 Proxy server: SIP Proxy伺服器地址設定
2.2.5.1.1.7 Domain server: Domain伺服器地址設定
2.2.5.1.1.8 Outbound proxy: Outbound Proxy伺服器地址設定

2.2.5.1.2 Second realm

2.2.5.1.2.1 Activation: 第二SIP伺服器啓動/停止
2.2.5.1.2.2 User name: SIP使用者名稱設定
2.2.5.1.2.3 Display name: SIP顯示名稱設定
2.2.5.1.2.4 Register name: SIP登錄名稱設定
2.2.5.1.2.5 Register password: SIP登錄密碼設定
2.2.5.1.2.6 Proxy server Proxy: 伺服器地址設定
2.2.5.1.2.7 Domain server: Domain伺服器地址設定
2.2.5.1.2.8 Outbound proxy: Outbound Proxy伺服器地址設定

2.2.5.1.3 Third realm

2.2.5.1.3.1 Activation: 第三SIP伺服器啓動/停
2.2.5.1.3.2 User name: SIP使用者名稱設定
2.2.5.1.3.3 Display name SIP: 顯示名稱設定
2.2.5.1.3.4 Register name: SIP登錄名稱設定
2.2.5.1.3.5 Register password: SIP登錄密碼設定
2.2.5.1.3.6 Proxy server Proxy: 伺服器地址設定
2.2.5.1.3.7 Domain server: Domain伺服器地址設定
2.2.5.1.3.8 Outbound proxy: Outbound Proxy伺服器地址設定

2.2.5.2 Codec

2.2.5.2.1 Codec type

1. G.711 uLaw: 選擇優先用 G.711 uLaw 語音壓縮方式
2. G.711 aLaw: 選擇優先用 G.711 aLaw 語音壓縮方式
3. G.723: 選擇優先用 G.723.1 語音壓縮方式
4. G.729: 選擇優先用 G.729A 語音壓縮方式
5. G.726-16: 選擇優先用 G.726 16Kbps 語音壓縮方式
6. G.726-24: 選擇優先用 G.726 24Kbps 語音壓縮方式
7. G.726-32: 選擇優先用 G.726 32Kbps 語音壓縮方式
8. G.726-40: 選擇優先用 G.726 40Kbps 語音壓縮方式

2.2.5.2.2 VAD: Voice Active Detection Enable/Disable. 啟動/停止設定

2.2.5.3 RTP setting

2.2.5.3.1 Outband DTMF: Outband DTMF啟動/停止設定

2.2.5.3.2 Duplicate RTP

1. No duplicate: 語音封包重送 0 次
2. One duplicate: 語音封包重送 1 次
3. Two duplicate: 語音封包重送 2 次

2.2.5.4 RPort Setting: RPort Enabled/Disabled啟動/停止RPORT設定

2.2.5.5 Hold by RFC: 通話保留啟動/停止設定 (依照RFC3261標準)

2.2.5.6 Status: Show the SIP Proxy register status. You can use UP/Down key to check each Realm's status. 顯示對SIP Proxy的註冊狀態

1. First Realm: 第一 SIP 伺服器註冊狀態
2. Second Realm: 第二 SIP 伺服器註冊狀態
3. Third Realm: 第三 SIP 伺服器註冊狀態

2.2.6 NAT Transversal

2.2.6.1 STUN setting

2.2.6.1.1 STUN: STUN啟動/停止設定

2.2.6.1.2 STUN server: STUN伺服器地址設定

2.2.7 Administrator

2.2.7.1 Auto Config

2.2.7.1.1 Config Mode: You can select Disable/TFTP/FTP to do the auto config function. This function must work with the Auto Config Server.

2.2.7.1.2 TFTP server: Setting the TFTP server IP address.

2.2.7.1.3 FTP server: Setting the FTP server IP address.

2.2.7.1.4 FTP Login Name: Setting the login name to the FTP server.

2.2.7.1.5 FTP Password: Setting the Password to the FTP server.

2.2.7.2 Upgrade system

2.2.7.2.1 Upgrade Now.

2.2.7.2.2 Status.

2.2.7.3 Default setting: You can restore to the default setting. 還原成出廠設定值.

2.2.7.4 System Authentication: To do the SIP setting from Keypad, need to input the password first. Default is blank "".

2.2.7.5 Version: This will show the system's firmware version.

2.2.7.6 Watch Dog: You can use this to enable Watch Dog function to do the debugging.

2.2.7.7 Restart: You can use this function to restart your IP Phone. 重新開機

3 Setup the LAN Phone 0399 by Web Browser

The LAN Phone 0399 provides a built-in web server. You can use Web browser to configure the LAN Phone 0399. First please input the IP address in the Web page. In the end of IP address, please add the port number ":9999". Ex: **http://192.168.123.1:9999**

3.1 Login.

3.1.1 Please input the username and password into the blank field. The default setting is:

1. For Administrator, the username is: **root**; and the password is: **test**. If you use the account login, you can configure all the setting.
2. For normal user, the username is: system or user; and the password is: null. If you use the account login, but you can not configure the SIP setting.

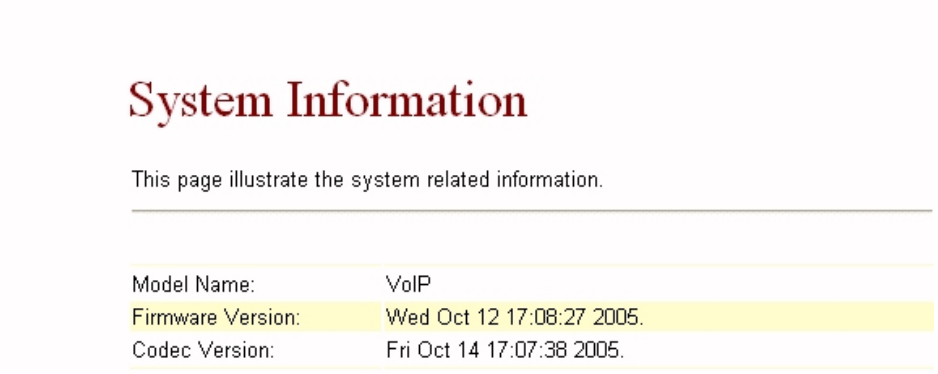
3.1.2 Click the "Login" button will move into the LAN Phone 0399 web based management information page.

3.1.3 If you change the setting in the Web Management interface, please do remember to click the "Submit" button in that page. After you finished the change of the setting, click the "Save" function in the left side, and click the Save Button. When you finished the setting, please click the Reboot function in the left side, and click the Reboot button in that page. After the system restart, all the setting can work properly.

3.2 System Information for the LAN Phone 0399.

3.2.1 When you login the web page, you can see the LAN Phone 0399 current system information like firmware version, company… etc in this page.

3.2.2 Also you can see the function lists in the left side. You can use mouse to click the function you want to set up.


System Information
This page illustrate the system related information.
Model Name: VoIP
Firmware Version: Wed Oct 12 17:08:27 2005.
Codec Version: Fri Oct 14 17:07:38 2005.

3.3 Phone Book

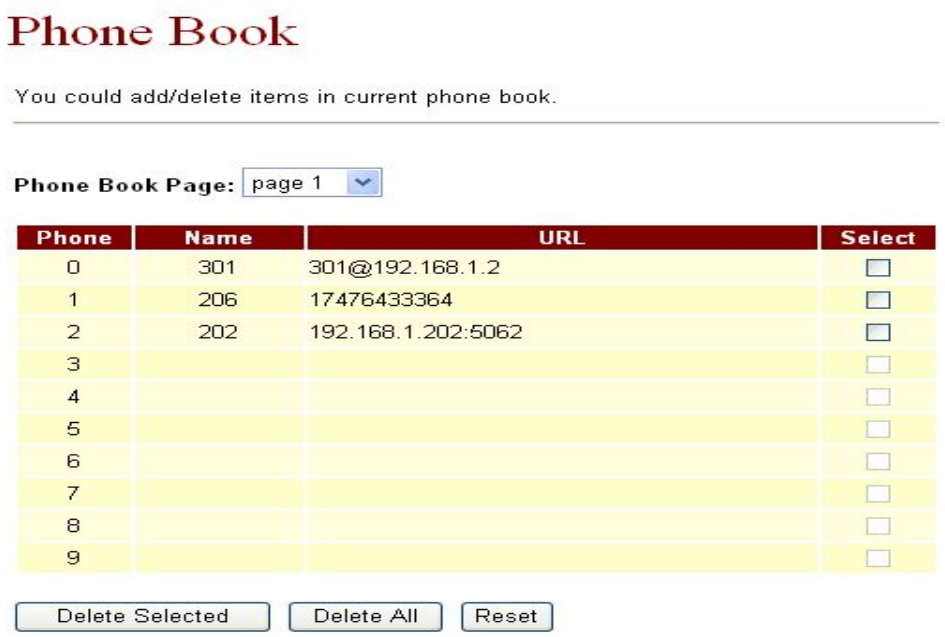
3.3.1 In Phone Book contains Phone Book and Speed Dial Settings. You can setup the Phone Book and Speed Dial number. The Phone Book can store 140 phone numbers and the Speed Dial can store 10 phone numbers. If you want to use Speed Dial you just dial the speed dial number (from 0~9) then press “#”.

3.3.2 In the Phone Book function you can add/delete the phone number in the phone book list. You can input maximum 100 entries phone book list.

3.3.2.1 If you need to add a phone number into the phone book, you need to input the position, the name, and the phone number (by URL type). When you finished a new phone list, just click the “Add Phone” button.

3.3.2.2 If you want to delete a phone number, you can select the phone number you want to delete then click “Delete Selected” button.

3.3.2.3 If you want to delete all phone numbers, you can click “Delete All” button.



3.3.3 In Speed Dial setting function you can add/delete Speed Dial number. You can input maximum 10 entries speed dial list.

3.3.3.1 If you need to add a phone number into the Speed Dial list, you need to input the position, the name, and the phone number (by URL type). When you finished a new phone list, just click the “Add Phone” button.

3.3.3.2 If you want to delete a phone number, you can select the phone number you want to delete then click “Delete Selected” button.

3.3.3.3 If you want to delete all phone numbers, you can click “Delete All” button.

Speed Dial Phone List

You could set the speed dial phones in this page.

Phone	Name	URL	Select
0	0	192.168.96.153	☐
1	060005001	060005001@192.168.32.201	☐
2	2	192.168.96.151:5060	☐
3			☐
4			☐
5			☐
6			☐
7			☐
8			☐
9			☐

Delete Selected | Delete All | Reset

Add New Phone

Position: (0~9)

Name:

URL:

Add Phone | Reset

3.4 Phone Setting

3.4.1 In Phone Setting contains Call Forward, SNTP Settings, Volume Settings, Melody Settings, DND Settings, Dial Plan Settings, Call waiting Settings, Soft-key Setting, Hot line Settings, Alarm Settings.

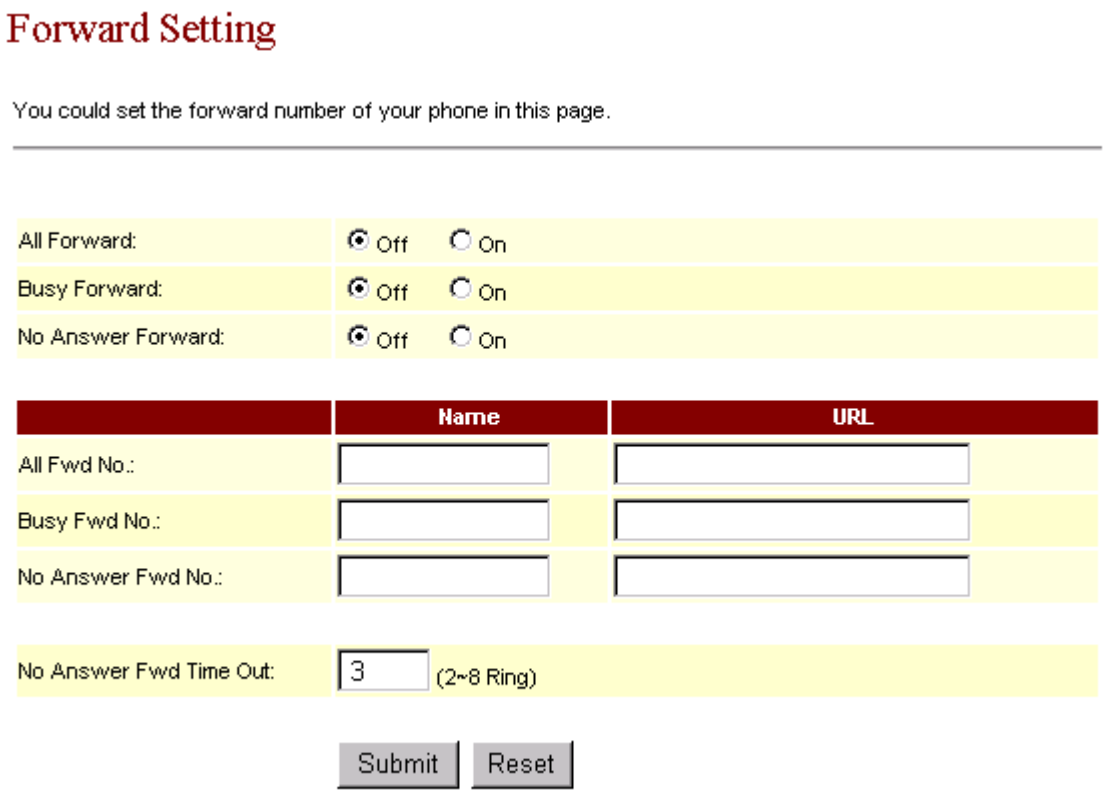
3.4.2 Call Forward function: you can setup the phone number you want to forward in this page. There are three type of Forward mode. You can choose All Forward, Busy Forward, and No Answer Forward by click the icon.

3.4.2.1 All Forward: All incoming call will forward to the number you choosed. You can input the name and the phone number in URL field. If you select this function, then all the incoming call will direct forward to the speed dial number you choose.

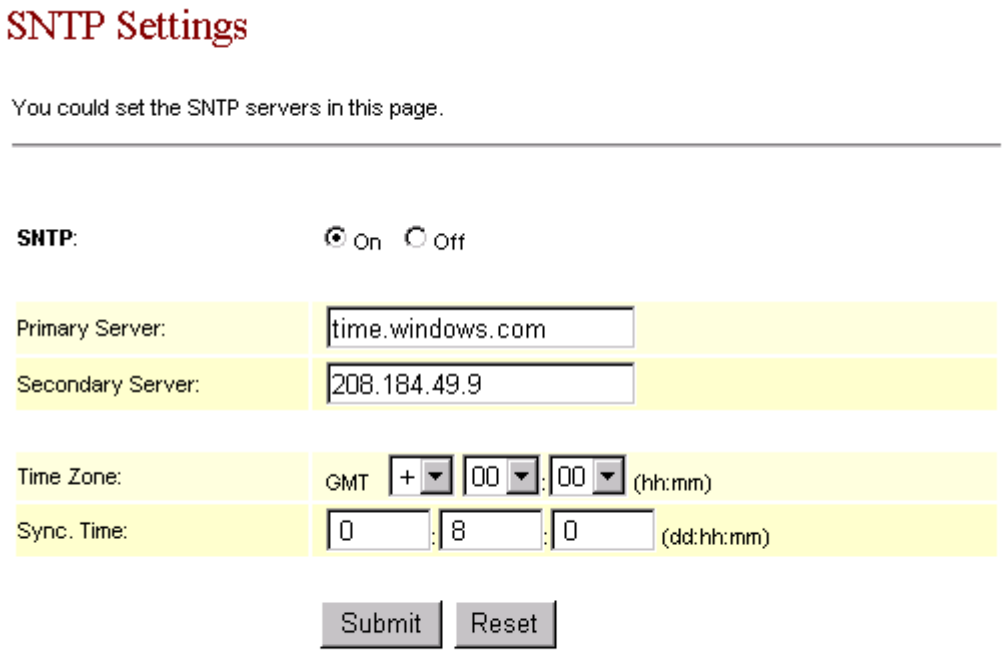
3.4.2.2 Busy Forward: If you are on the phone, the new incoming call will forward to the number you choosed. You can input the name and the phone number in URL field.

3.4.2.3 No Answer Forward: : If you can not answer the phone, the incoming call will forward to the number you choosed. You can input the name and the phone number in URL field. Also you have to set the Time Out time for system to start to forward the call to the number you choosed.

3.4.2.4 When you finished the setting, please click the Submit button.

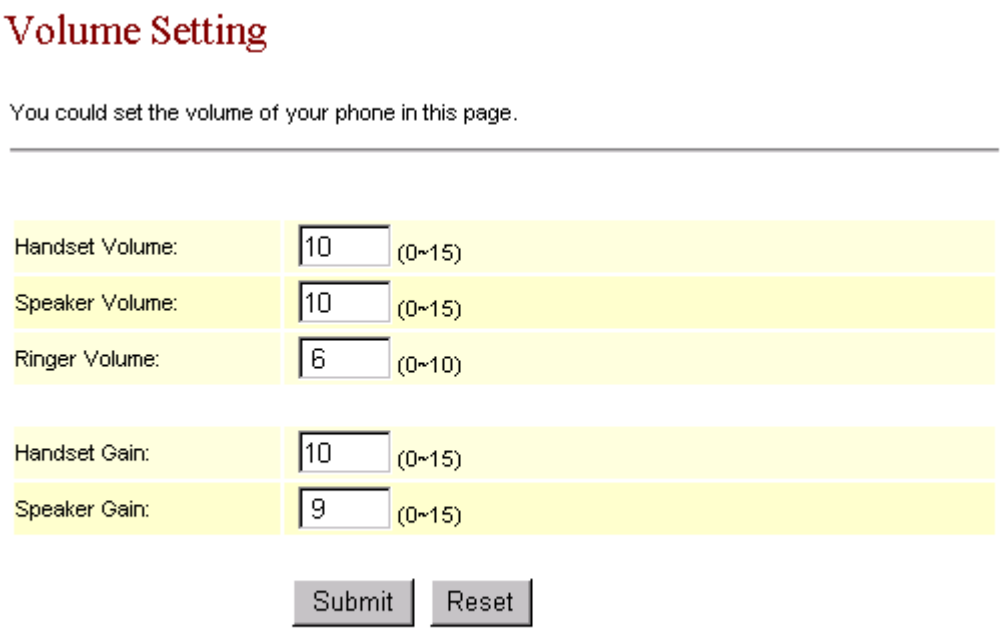


3.4.3 SNTP Setting function: you can setup the primary and second SNTP Server IP Address, to get the date/time information. Also you can base on your location to set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the Submit button.

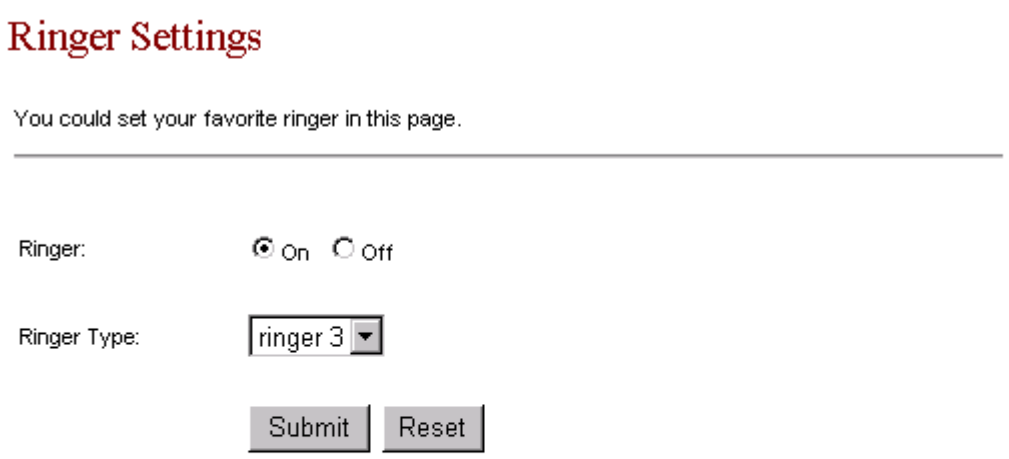


3.4.4 Volume Setting function: you can setup the Handset Volume, Ringer Volume, and the Handset Gain. When you finished the setting, please click the Submit button.

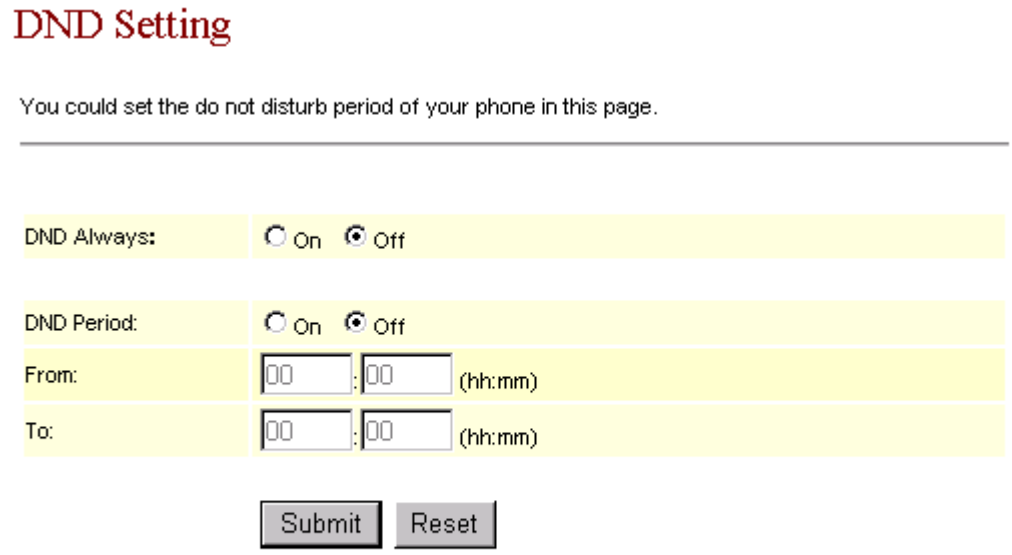
3.4.4.1 Handset Volume is to set the volume you hear from the handset.
3.4.4.2 Speaker Volume is to set the volume you hear from the speaker phone.
3.4.4.3 Ringer Volume is to set the ringer volume.
3.4.4.4 Handset Gain is to set the volume send out from from the handset.
3.4.4.5 Speaker Gain is to set the volume send out from from the micro phone.



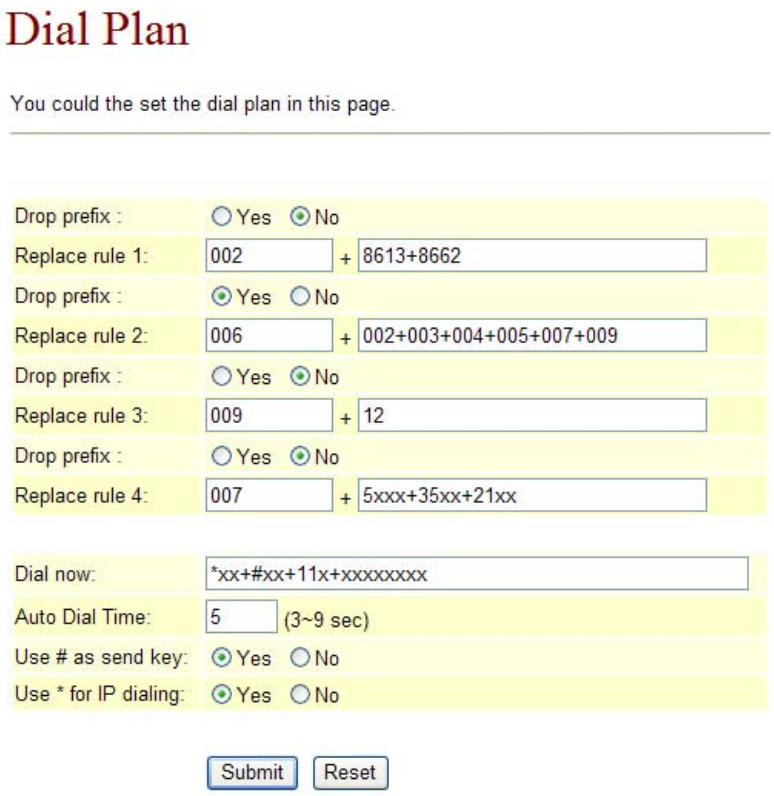
3.4.5 Melody Setting function: you can select the melody for the incoming call. When you finished with the setting, please click the Submit button.



3.4.6 DND function: In this section, you can choose two types of options for DND, these are DND Always and DND Period. DND Always will block all incoming calls, while DND Period allows users to specify the period of time when incoming calls should be blocked.



3.4.7 Dial Plan Setting: Allows users to set prefixes that can be applied to dialed numbers.


Dial Plan
You could the set the dial plan in this page.
Drop prefix : Yes No
Replace rule 1: 002 + 8613+8662
Drop prefix : Yes No
Replace rule 2: 006 + 002+003+004+005+007+009
Drop prefix : Yes No
Replace rule 3: 009 + 12
Drop prefix : Yes No
Replace rule 4: 007 + 5xxx+35xx+21xx
Dial now: *xx+#xx+11x+xxxxxxxx
Auto Dial Time: 5 (3~9 sec)
Use # as send key: Yes No
Use * for IP dialing: Yes No
Submit
Reset

For example:

1: Drop prefix: No, Replace rule 1: 002, 8613+8662

Explanation ： If you dial a number that has a prefix matching 8613 or 8662, the device will automatically append the number 002 in front of the dialed number, therefore the number that will be dialed out is [002+8613+xxx] or [002+8662+xxx] depending on which of the two numbers were dialed.

2：Drop prefix: Yes, Replace rule 2: 006, 002+003+004+005+007+009；

Explanation ： If you dial a number that has a prefix matching 002, 003, 004, 005, 007 or 009, the device will drop all these numbers and replace it with 006, therefore the number that will be dialed out is [006+xxx].

3:Drop prefix: No, Replace rule 3: 009, 12

Explanation： If you dial a number that has a prefix matching 12, the device will automatically append the number 009 in front of the dialed number, therefore the number that will be dialed out is [009+12+xxx].

4:Drop prefix: No, Replace rule 4: 007, 5xxx+35xx+21xx

Explanation： This replacement rule will check if the first digit of the number is 5 followed by any three digits, if it is, the device will automatically append 007 to the dialed number. Therefore the number that will be dialed out is [007+5xxx]. This rule will also check whether the first two digits of the number dialed by the user is 35 or 21 followed by any two digits, if it matches, the device will automatically append 007 to the dialed number. Therefore the number that will be dialed out is [007+35xx] or [007+21xx] correspondingly. However, if the user dials a number that does not match the rule, for instance 534, the device will detect that only 2 digits were inputted to the end of the digit 5, not three, as a result the device will only dial the number 534 without appending 007. Likewise, if the number dialed does not match any of the prefix rules, only the original number will be dialed.

5:Auto Dial Time: 5

Explanation: While dialing a number, once the user stops pressing the keypad for 5 seconds, the device will commence the dialing process. For example, if the user dials 58946869 and stops dialing for 5 seconds, this number will be dialed. You can set this option within the range of 3 – 9 seconds.

6:Dial now: *xx+#xx+11x+xxxxxxxx

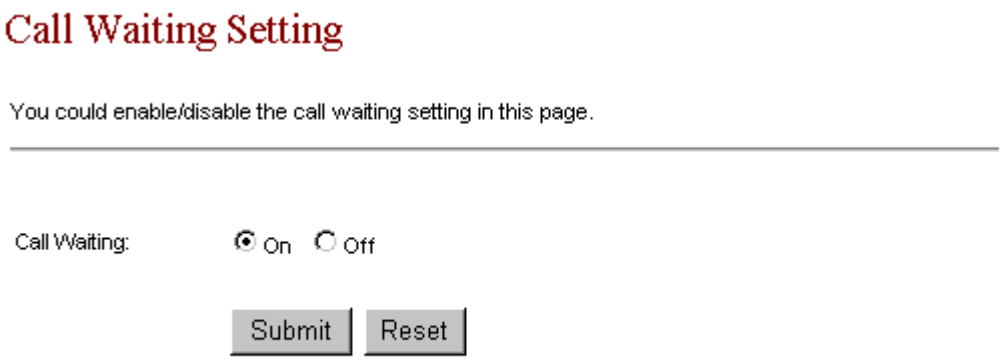
Explanation 1: If the number dialed matches the rule "*xx", it will automatically dial the dialed number, e.g. *00, *01, *02… *99. If the user happens to dial more digits in the end such as *001111, the system will detect that the first two matches the rule, and send out the number *00 regardless of the remaining digits. Hence the name Dial Now.

Explanation 2: If the number dialed matches the rule"#xx", it will automatically dial the dialed number, e.g. #00, #01, #02… #99. If the user happens to dial more digits in the end such as #001111, the system will detect that the first two matches the rule, and send out the number #00 regardless of the remaining digits. Hence the name Dial Now.

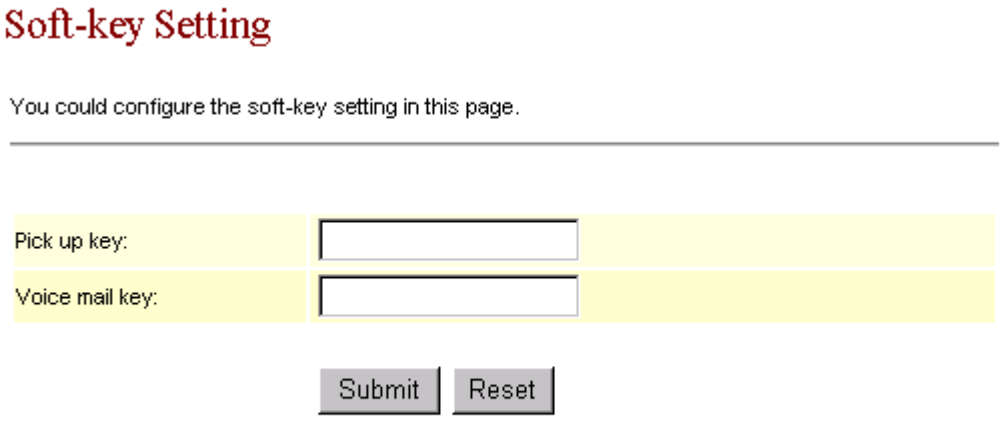
Explanation 3: If the number dialed matches the rule "11x", then it will automatically dial the dialed number, e.g. 110, 111, 112…119. If the user happens to dial more digits in the end such as 1101234 the system will detect that the first three matches the rule, and send out the number 110 regardless of the remaining digits. Hence the name Dial Now.

Explanation 4: If it detects the number dialed is 8 digits, then it will automatically send out the number dialed, e.g. 12345678.

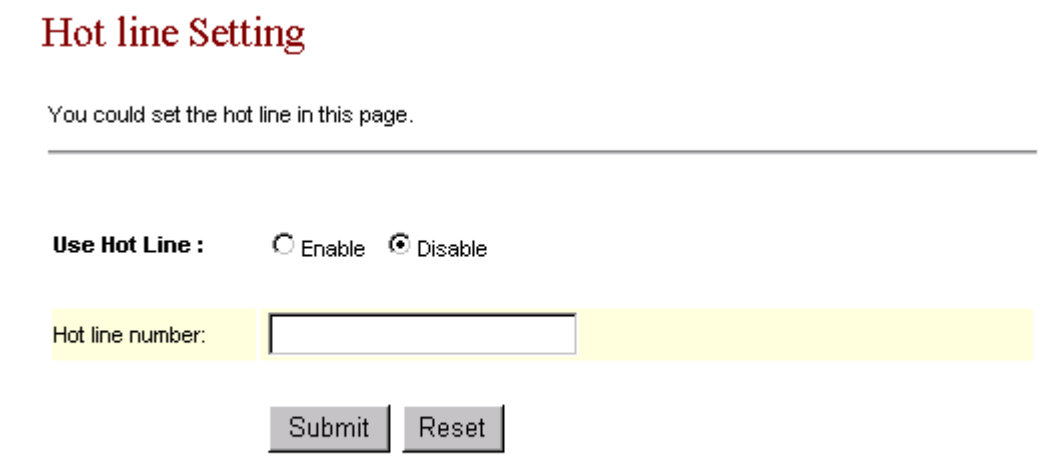
3.4.8 Call Waiting Setting: You can Enable/Disable the Call Waiting function, When you are talking with someone, there is a new incoming call, you will hear the call waiting tone. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



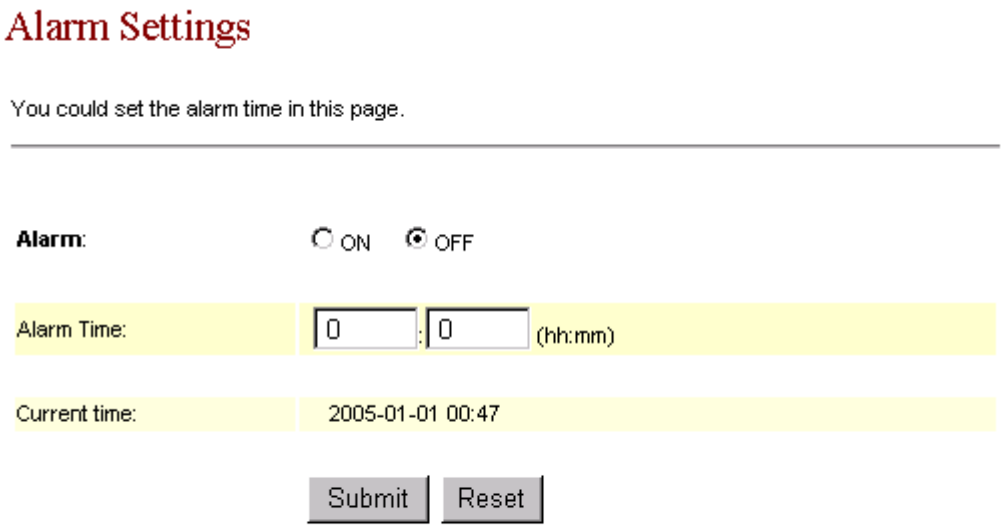
3.4.9 Soft-key Setting: Special function code for Pick up and Voice Mail function.



3.4.10 Hot line Setting: This function is support auto dial to you setting hot line number, when you setting this function device should can not dial any number.



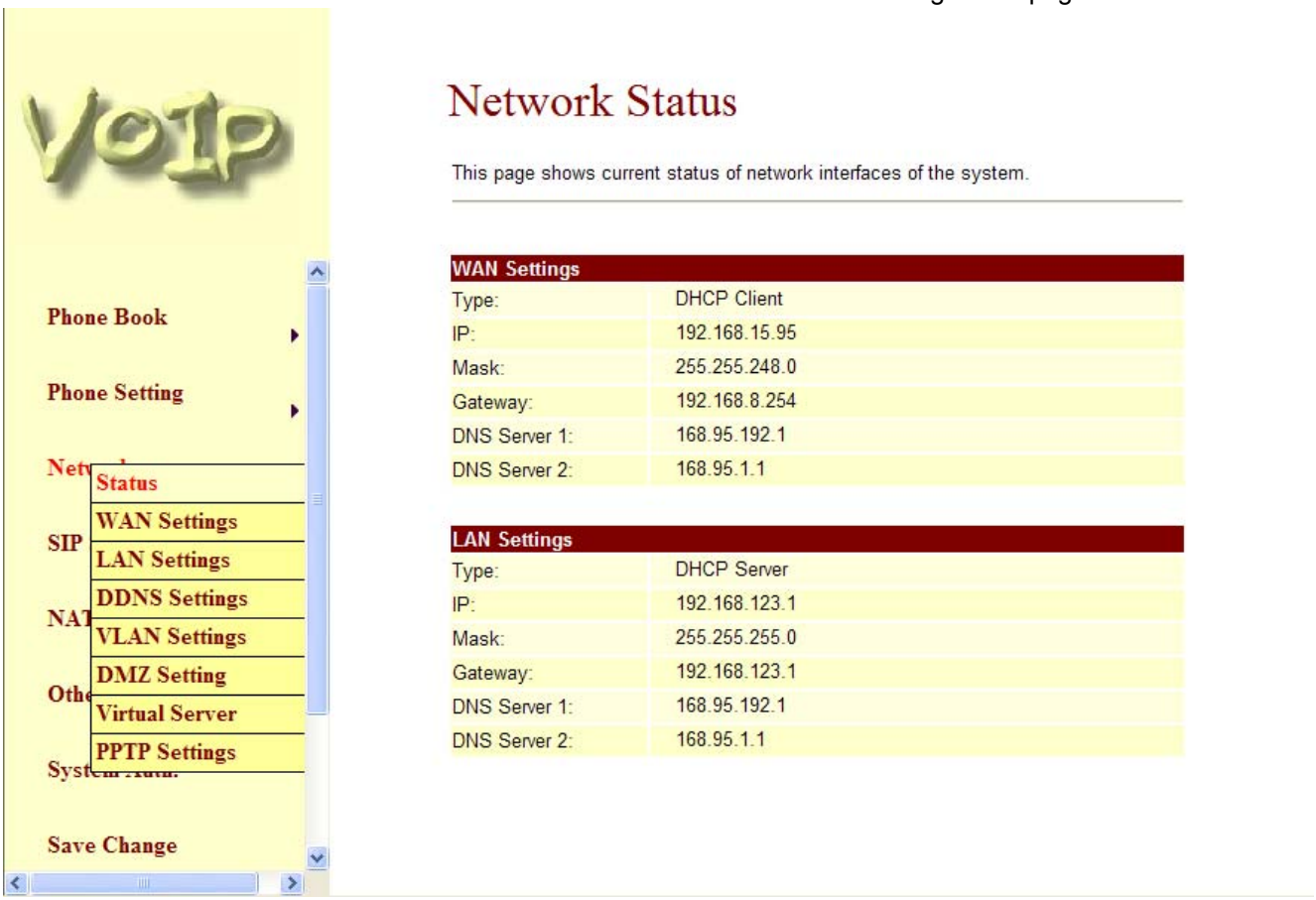
3.4.11 Alarm Setting: Setting telephone ring time, When you setting time with current time are match device should produce a ring ,this time format is 24 hours.



3.5 Network

3.5.1 In Network you can check the Network status, configure the WAN Settings, LAN Settings, DDNS settings, VLAN Settings, DMZ Setting, Virtual Server and PPTP Settings.

3.5.2 Network Status: You can check the current Network setting in this page.



3.5.3 WAN Settings: You can configure the LAN Phone 0399 Network setting in this page.

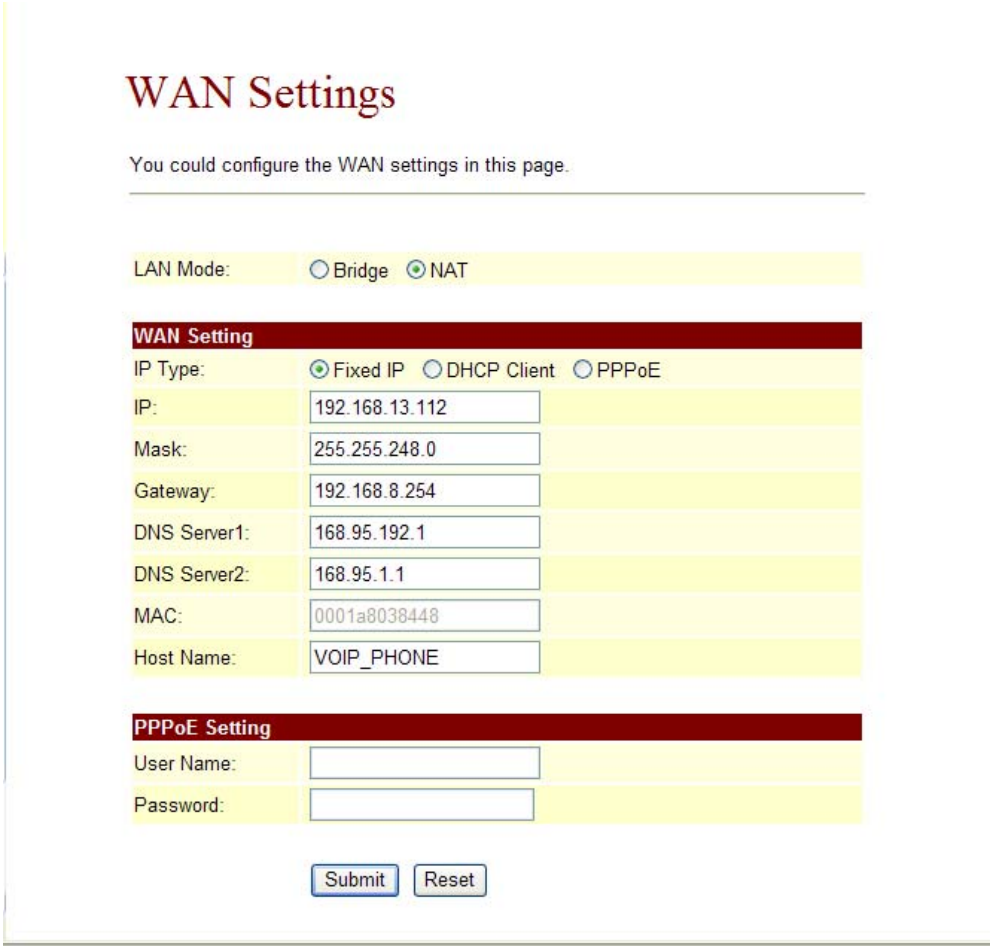
3.5.3.1 The Bridge Item is to setup the LAN Phone 0399 Bridge mode Enable/Disable. If you set the Bridge On, then the two Fast Ethernet ports will be transparent.

3.5.3.2 LAN Mode: Set NAT mode, the port of LAN will support to assgin Private IP to other device which insert to LAN port.

3.5.3.3 The TCP/IP Configuration item is to setup the LAN port's network environment. You may refer to your current network environment to configure the LAN Phone 0399 properly.

3.5.3.4 The PPPoE Configuration item is to setup the PPPoE Username and Password. If you have the PPPoE account from your Service Provider, please input the Username and the Password correctly.

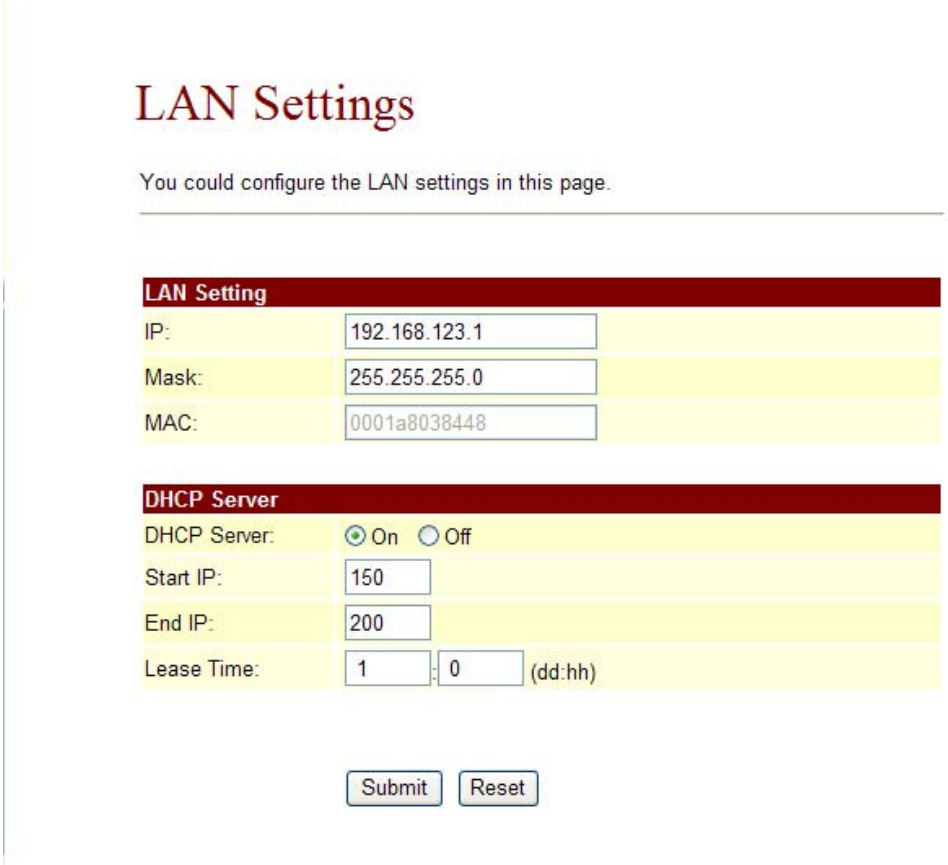
3.5.3.5 When you finished the setting, please click the Submit button.



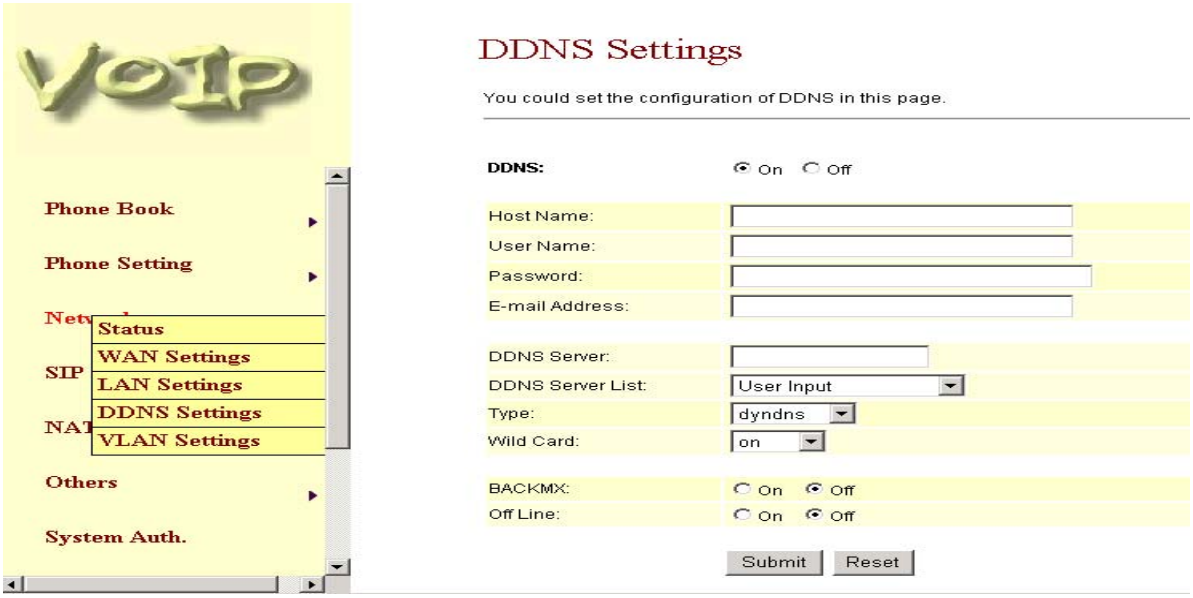
3.5.4 LAN Setting: If you choose NAT option in LAN mode, the port of LAN can support to assign Private IP to other device which insert to LAN port. You can also configure Private IP type on this page.

3.5.4.1 LAN Setting: The LAN port of lp-0399 has the ability to act as a DHCP server. Therefore this setting menu allows users to specify an IP address and subnet mask for the virtual DHCP server which will be assigned to the LAN port of the phone.

3.5.4.2 DHCP Server: Allows you to Enable/Disable the virtual DHCP server function. The Start IP and End IP fields provides users the option to specify the range of IP addresses that the hosts will be assigned to. While the Lease Time field specifies how long the IP addresses assigned by the virtual DHCP is valid for. The format is dd:hh (days/hours).



3.5.5 DDNS Setting: You can configure the DDNS setting in this page. You need to have the DDNS account and input the informations properly. You can have a DDNS account with a public IP address then others can call you via the DDNS account. But now most of the VoIP applications are work with a SIP Proxy Server. When you finished the setting, please click the Submit button.



3.5.6 VLAN: You can set the VLAN setting in this page. Set the packets related to the LP0399,

3.5.6.1 There are two kind of destination packets will come from the LP0399's WAN port, one kind of packets will go to the LP0399, the other will go through the LAN port to the PC.

3.5.6.2 VLAN Packets: if you enable the first VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets will be check with the IP Address and the VID.

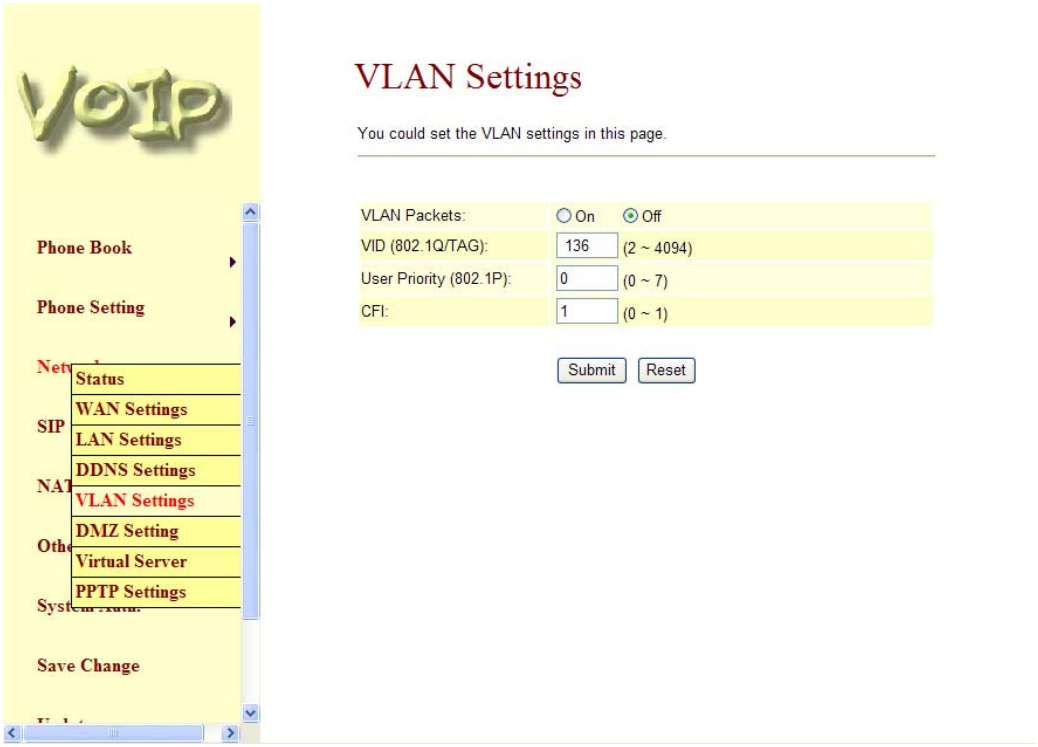
3.5.6.3 VID: You can follow your service provider to set your VID.

3.5.6.4 User Priority: Defines user priority, giving eight (2^3) priority levels. IEEE 802.1P defines the operation for these 3 user priority bits. Usually this will be defined by your service provider.

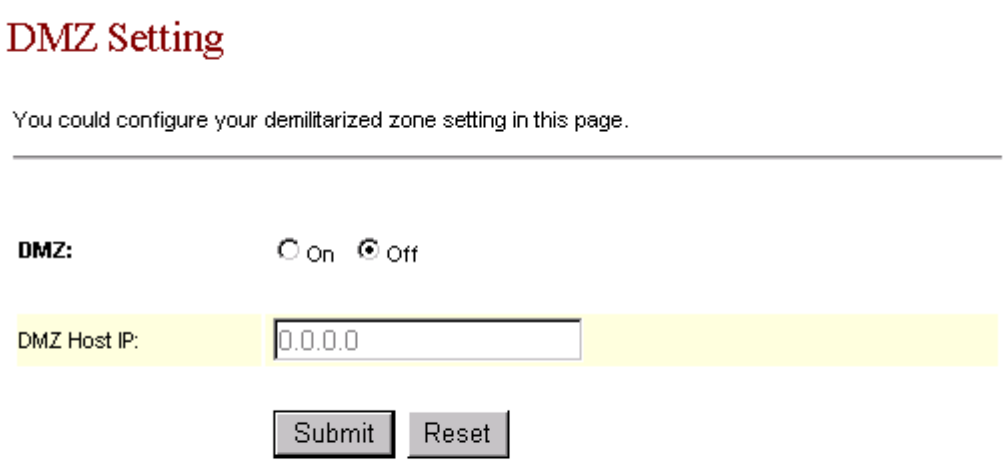
3.5.6.5 CFI: Canonical Format Indicator is always set to zero for Ethernet switches. CFI is used for compatibility reason between Ethernet type network and Token Ring type network. If a frame received at an Ethernet port has a CFI set to 1, then that frame should not be forwarded as it is to an untagged port.

3.5.6.6 When you enable the first VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets with the LP0399's IP address and the same VID will be accept by the LP0399. If the incoming packets with the LP0399's IP address but the different VID then the packets will be discard by the LP0399. The Other incoming packets with different IP address will go through the LAN port to the PC.

3.5.6.7 If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

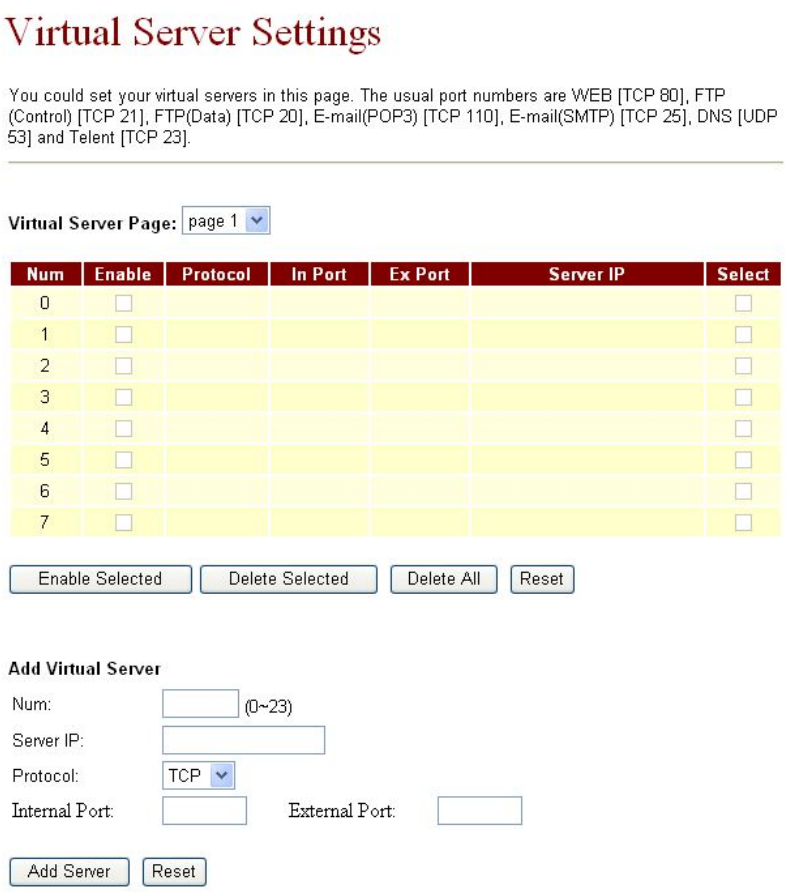


3.5.7 DMZ Setting: If you enable it, all packets will send to the specific IP(except SIP packets)



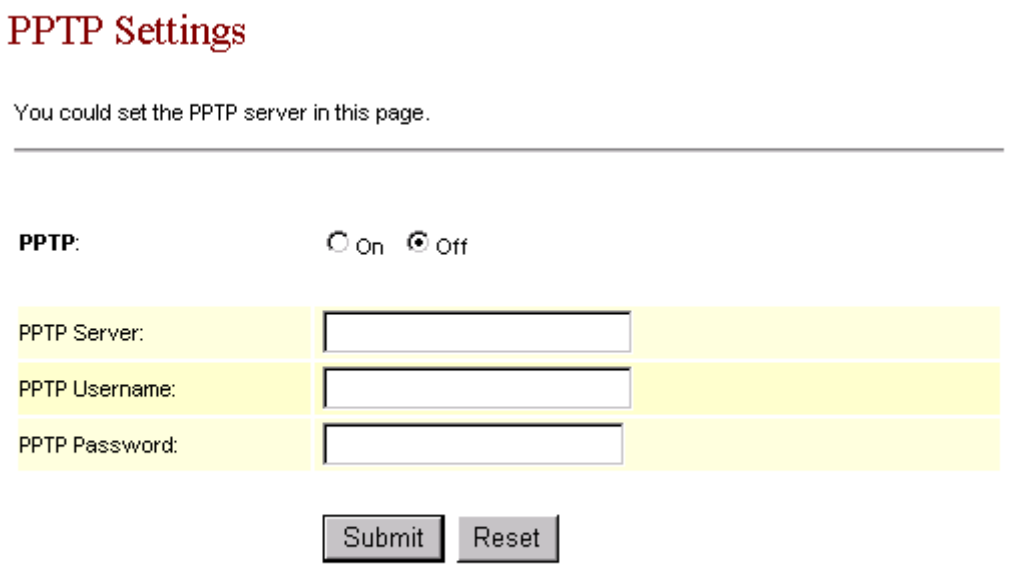
DMZ	Default setting is Off (not executed). When activated, all packets (excluding SIP related packets) will be sent to the designated IP address
DMZ Host IP	Input the special IP address of the DMZ host.
Submit [Button]	Saves the configuration
Reset [Button]	Erases the configuration

3.5.8 Virtual Server:



Virtual Server Page	To browse through different pages, click on the drop down box and select the page number you wish to view.
Num	This column displays the serial numbers, ranging from 0-23. There are 24 records in total.
Enable	Click on the check box to enable this option, the default option is unchecked (disabled).
Protocol	Displays the TCP and UDP port information.
In Port	Displays the internal port number.
Ex Port	Displays the external port number.
Server IP	Shows the IP address of the Server.
Select	To select a specific Virtual Server and perform configurations, click on the check box according to the server that you wish to configure.
Enable Selected [Button]	Enable the selected server.
Delete Selected [Button]	Delete the selected server.
Delete All [Button]	Delete all data.
Reset [Button]	Clean all data.
Num [Button]	Specify which record to insert the server on the table. The allowable range is 0-23.

3.5.9 PPTP: Sets your PPTP information.



PPTP	Default setting is Off (not executed). When set to On (executed), PPTP function will be activated.
PPTP Server	Input the IP address of the PPTP server's location.
PPTP Username	Input the username (login details).
PPTP Password	Input the password (login details).
Submit [Button]	Saves the configuration
Reset [Button]	Erases the configuration

3.6 SIP Settings

3.6.1 In SIP Settings you can setup the Service Domain, Port Settngs, Codec Settings, Codec ID Settings, RTP Setting, RPort Setting and Other Settings. If the VoIP service is provided by ISP, you need to setup the related informations correctly then you can register to the SIP Proxy Server correctly.

3.6.2 In Service Domain Function you need to input the account and the related informations in this page, please refer to your ISP provider. You can register three SIP account in the LAN Phone 0399. You can dial the LAN Phone 0399 to your friends via first enable SIP account and receive the phone from these three SIP accounts.

3.6.2.1 First you need click Active to enable the Service Domain, then you can input the following items:

3.6.2.1.1 Display Name: you can input the name you want to display.

3.6.2.1.2 User Name: you need to input the User Name get from your ISP.

3.6.2.1.3 Register Name: you need to input the Register Name get from your ISP.

3.6.2.1.4 Register Password: you need to input the Register Password get from your ISP.

3.6.2.1.5 Domain Server: you need to input the Domain Server get from your ISP.

3.6.2.1.6 Proxy Server: you need to input the Proxy Server get from your ISP.

3.6.2.1.7 Outbound Proxy: you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.

3.6.2.1.8 You can see the Register Status in the Status item. If the item shows “Registered”, then your LAN Phone 0399 is registered to the ISP, you can make a phone call direcly.

3.6.2.1.9 If you have more than one SIP account, you can following the steps to register to the other ISP.

3.6.2.1.10 3.2.6.2.1.10 When you finished the setting, please click the Submit button.

3.2.6.2.1.11 MWI: Just support “Subscribe MWI mode”.

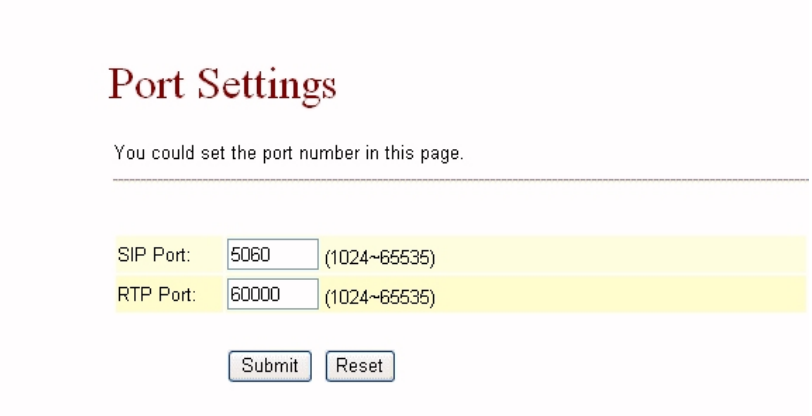
Service Domain Settings

You could set information of service domains in this page.

Realm 1 (Default)	
Active:	(•) On ( ) Off
Display Name:	0702069702
User Name:	0702069702
Register Name:	0702069702
Register Password:	••••••••••
Domain Server:	
Proxy Server:	192.168.32.253
Outbound Proxy:	
Subscribe for MWI:	( ) On (•) Off
Status:	Registered

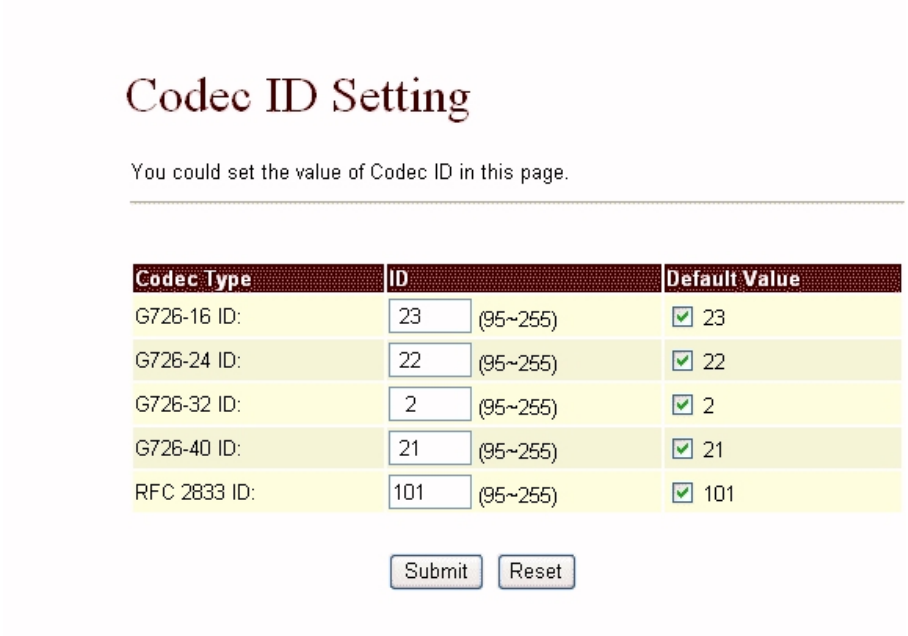
Realm 2	
Active:	( ) On (•) Off
Display Name:	
User Name:	
Register Name:	
Register Password:	
Domain Server:	
Proxy Server:	
Outbound Proxy:	
Subscribe for MWI:	( ) On (•) Off
Status:	Not Registered

3.6.3 Port Settings: you can setup the SIP and RTP port number in this page. Each ISP provider will have different SIP/RTPport setting, please refer to the ISP to setup the port number correctly. When you finished the setting, please click the Submit button.



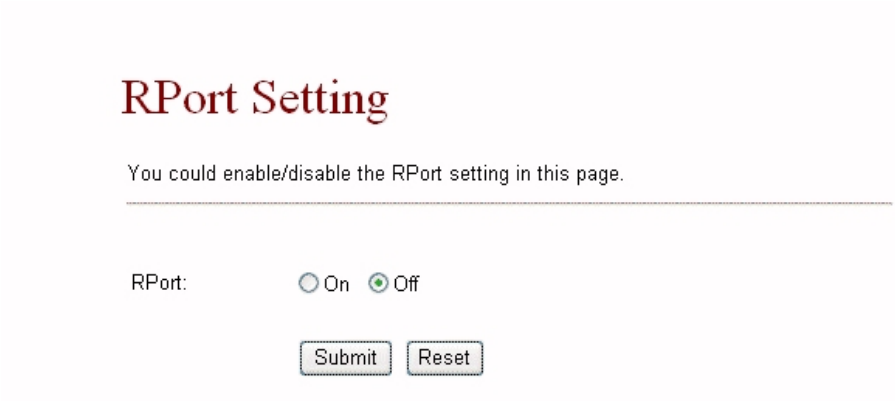
3.6.4 Codec Settings: You can setup the Codec priority, RTP packet length, and VAD function in this page. You need to follow the ISP suggestion to setup these items. When you finished the setting, please click the Submit button.

3.6.5 Codec ID Settings: You can set the Codec ID to meet the other device's requirement. When you finished the setting, please click the Submit button.



3.6.6 DTMF Setting: You can setup the RFC2833 Out-Band DTMF, Inband DTMF and Send DTMF SIP Info in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button.

3.6.7 RPort Function: You can setup the RPort Enable/Disable in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button.

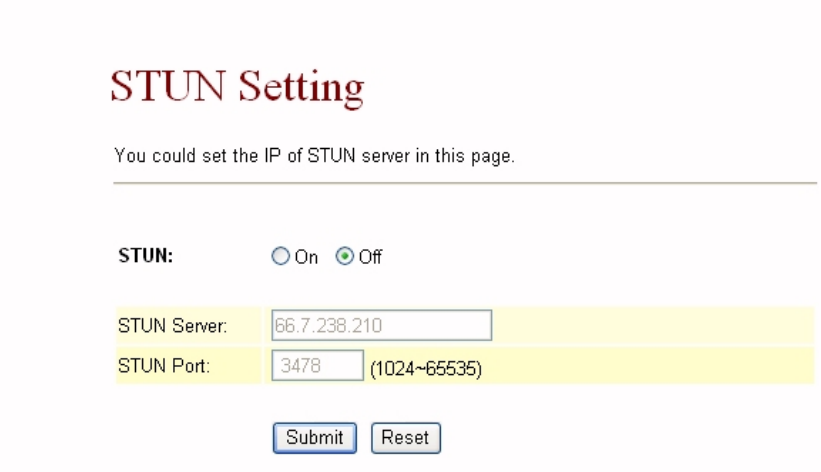


3.6.8 Other Settings: You can setup the Hold by RFC, Voice/SIP QoS and SIP expire time in this page. To change these settings please following your ISP information. When you finished the setting, please click the Submit button. The QoS setting is to set the voice packets' priority. If you set the value higher than 0, then the voice packets will get the higher priority to the Internet. But the QoS function still need to cooperate with the others Internet devices.

3.7 NAT Trans

3.7.1 In NAT Trans. you can setup STUN function. These functions can help your LAN Phone 0399 working properly behind NAT.

3.7.2 STUN Setting: you can setup the STUN Enable/Disable and STUN Server IP address in this page. This function can help your LAN Phone 0399 working properly behind NAT. To change these settings please following your ISP information. When you finished the setting, please click the Submit button.



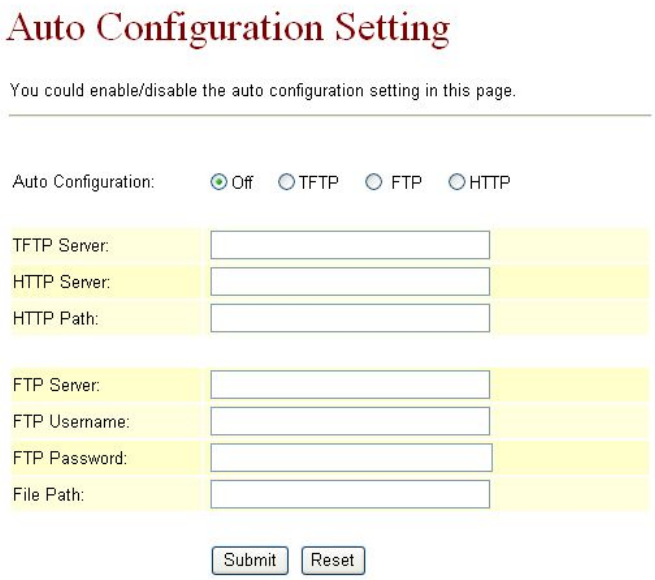
3.8 Others.

3.8.1 In Others you can setup Auto Config and ICMP Setting function. The function can configure your LAN Phone 0399 automatically.

3.8.2 Auto Config: you can setup the Auto Configuration Enable/Disable and auto configuration by FTP or TFTP. You need to select the way to do the Auto Configurationand set the Server IP address in this page. This function can automatically download the configure file to setup your LAN Phone 0399. When you finished the setting, please click the Submit button.

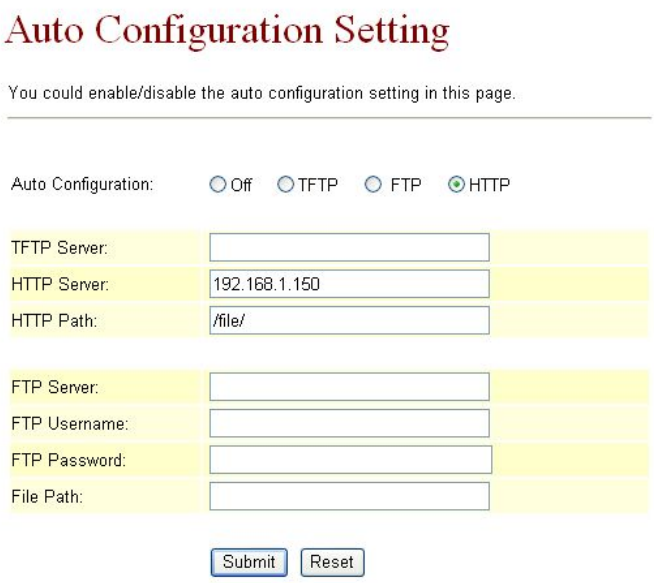
3.8.3 When you finished the setting, please click the Submit button.

3.8.4 If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

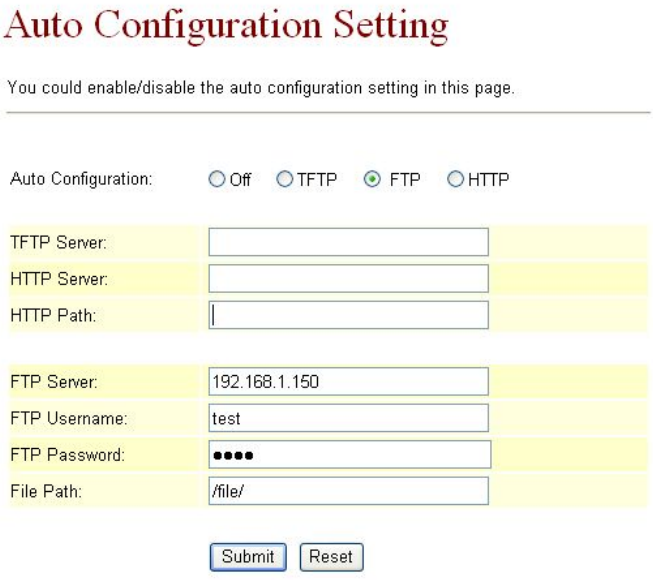


Auto Configuration	Default setting is Off (not executed). Specify the methods on how auto configuration will be performed, the options are TFTP, FTP or HTTP.
TFTP Server	Set the TFTP Server's location, you can input IP address or Domain Name information in this text box.
HTTP Server	Set the HTTP Server's location, you can input IP address or Domain Name information in this text box.
HTTP Path	Specify the path to store data, for e.g. /123/
FTP Server	Set the FTP Server's location, you can input IP address or Domain Name information in this text box.
FTP Username	Enter the relevant Username to log on to the FTP Server。
FTP Password	Enter the relevant password associated with the inputted username to log on to the FTP Server
File Path	Specify the path to store data, for e.g. /123/
Submit [Button]	Saves the configuration
Reset [Button]	Erases the configuration

3.8.5 Auto configuration example



Example 1: Auto Configuration: HTTP，HTTP Server: 192.168.1.50，HTTP Path: /file/。
Explanation： device will connect to the HTTP Server's /file/ folder path and search the matching file。



2：Auto Configuration: FTP，FTP Server: 192.168.1.150，FTP Username: test，FTP Password: test，File Path: /file/。
Comment 1：device will connect to the FTP Server's /file/ folder path and search the matching file 。

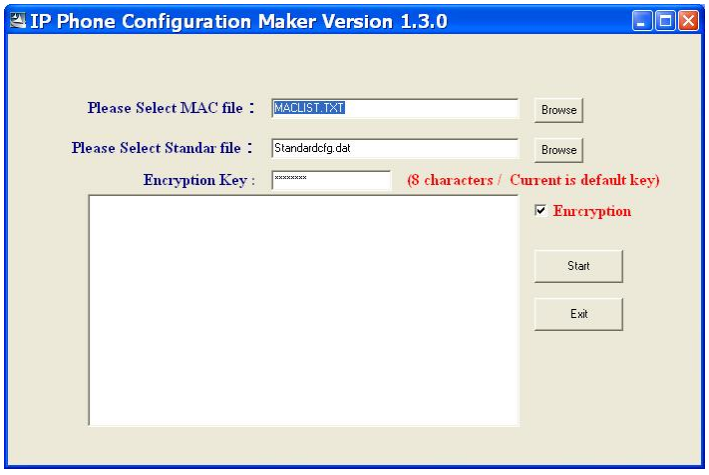
3.8.6 How to produce auto Configuration file

1： Firstly, you need to find the MAC address of the device that you want to configured，for e.g. MAC Address: 00059e812118。

Explanation 1：open the [MACList.txt] file then enter the these information in order[MAC Address, Display Name, User Name, Register Name, Register Pass](example ：00059e812118, UN_DO, 105, 105, 105)，when completed, please save your file.

Explanation 2：open the [StandardCFG.dat] file (use Windows notepad program to open the file)，then change the configurations parameters accordingly, once finished, please save the file。

Explanation 3：open the [MakeMACF.exe] file ，download [MAC File: MACList.txt, Standard File: StandardCFG.dat]，select [Start]，then encrypt the file。

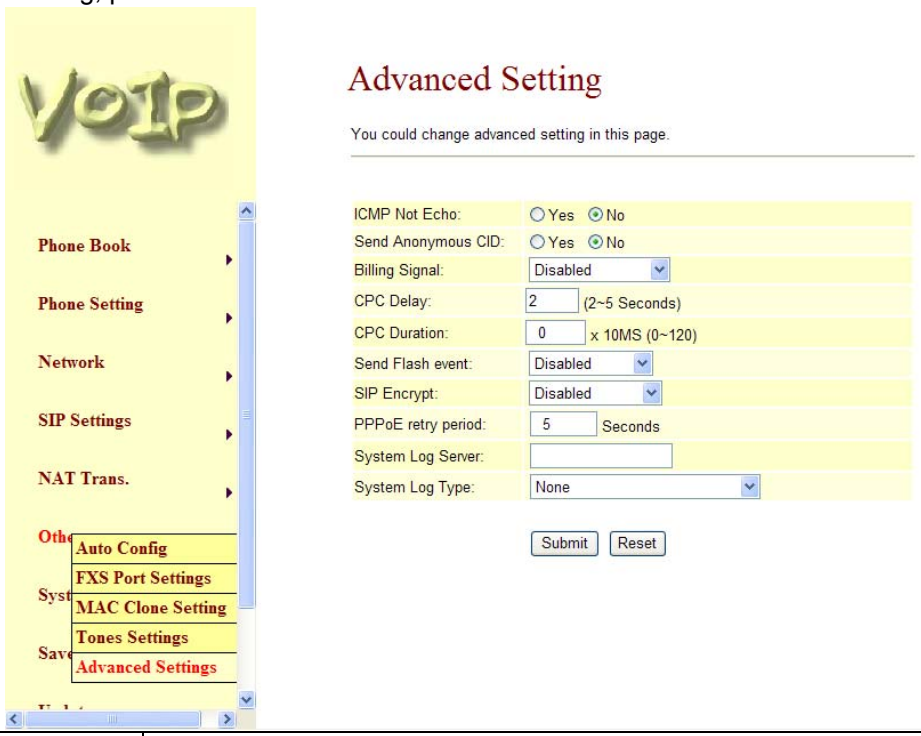


Explanation 4：the program will produce a encrypted string [00059e812118.dat] as the filename。

Explanation 5：please insert the name of the newly encrypted filename [00059e812118.dat] to your [HTTP or FTP or TFTP Server] file path。

3.8.7 Advanced Setting

ICMP Setting: you can setup the ICMP echo Enable/Disable in this page. This function can disable echo when someone ping this device, it can avoid haker try to attack the device. When you finished the setting, please click the Submit button.



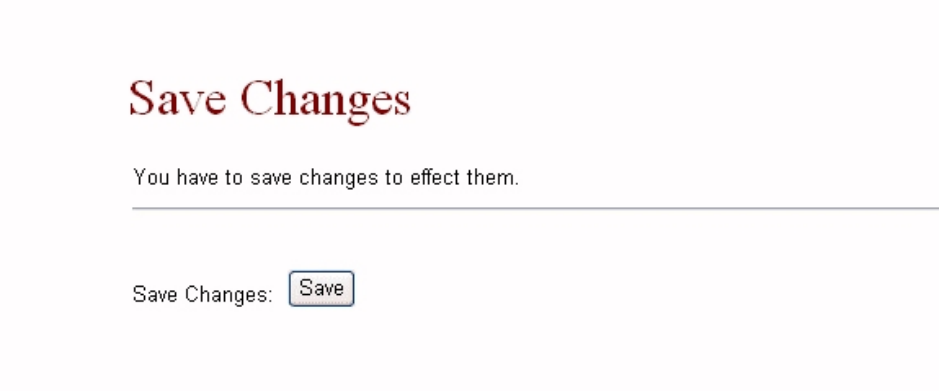
ICMP Not Echo	Default setting is No (do not activate). Once activated all ping messages will not be responded.
Send Anonymous CID	Default setting is No (do not activate). Once activated the device will not send its own number.
Billing Signal (*)	Default setting is Disabled (do not activate). Once activated the device will send a signal to notify about the billing status (Polarity Reversal, Tone_12K, Tone_16k) Support FXS Port
CPC Delay	Default is 2 seconds, allows the system the ability to adjust the time taken to lower the voltage to 0V upon disconnection. Support FXS Port
CPC Duration	Default value is 0ms (do not lower any voltage). Specifies how long the voltage will remain in ms when it is lowered to 0V.
Send Flash event	Default setting is Disabled (do not activate). Provides two methods for sending flash event messages; DTMF Event and SIP Info.
SIP Encrypt	Default setting is Disabled (do not activate). SIP's encryption method, four options to choose from; INFINET, AVS, WALKERSUN1, WALKERSUN2. Only works under environments that provide these services.
PPPoE retry period (*)	Default value is 5 seconds, range is from 5~255. Specifies the time taken to redial when PPPoE dialing fails.
System Log Server (*)	Specifies the location of the System log server where log information will be stored.
System Log Type (*)	Default setting is None (do not activate). Specifies the format of system log messages, four to choose from; None, Call Statistics, Debug Information and Both.
Submit [Button]	Save setting value.
Reset [Button]	Clean all setting.

3.9 System Auth.

3.9.1 In System Authority you can change your login name and password.

3.10 Save Change

3.10.1 In Save Change you can save the changes you have done. If you want to use new setting in the LAN Phone 0399, You have to click the Save button. After you click the Save button, the LAN Phone 0399 will automatically restart and the new setting will effect.



3.11 Update Rom firmware:

3.11.1 In Update you can update the LAN Phone 0399's firmware to the new one or do the factory reset to let the LAN Phone 0399 back to default setting.

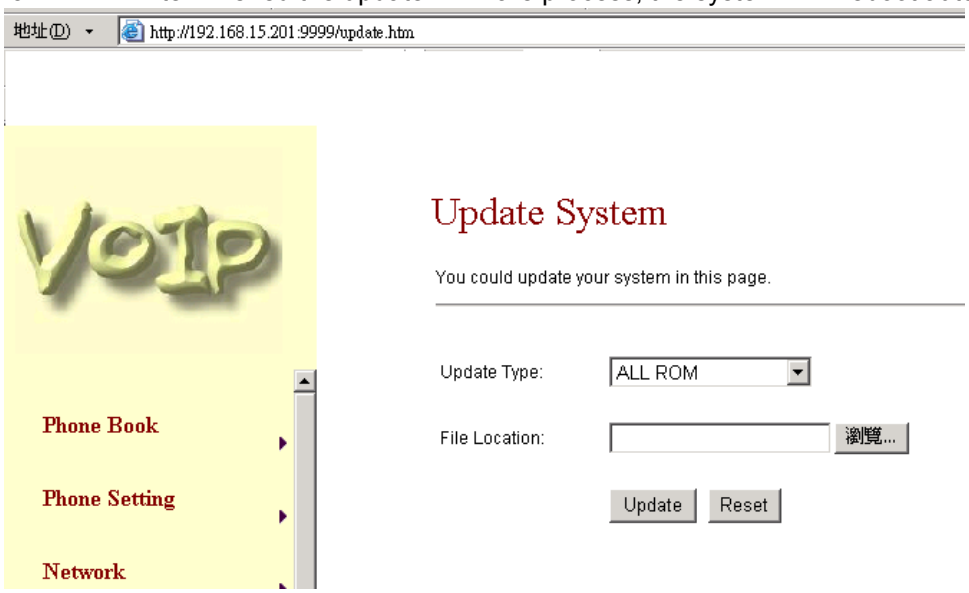
3.11.2 In New Firmware function you can update new firmware via HTTP in this page. You can ugrade the firmware by the following steps:

3.11.2.1 Select the firmware code type, ROM code.

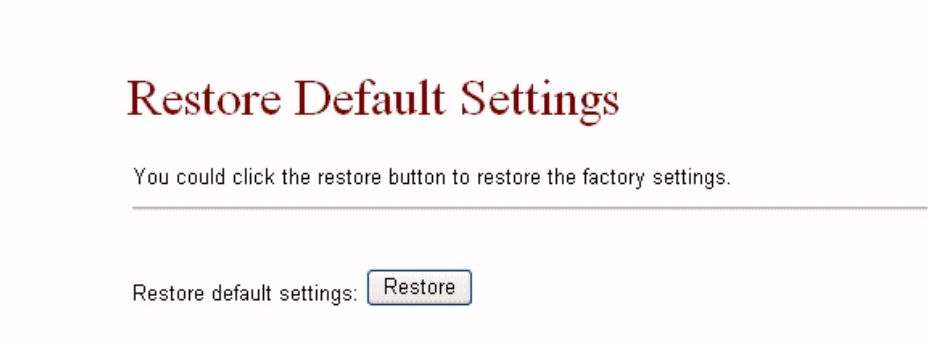
3.11.2.2 Click the "Browse" button in the right side of the File Location or you can type the correct path and the filename in File Location blank.

3.11.2.3 Select the correct file you want to download to the LAN Phone 0399 then click the Update button.

3.11.2.4 After finished the update firmware process, the system will Reboot automatically.



3.11.3 In Default Setting you can restore the LAN Phone 0399 to factory default in this page. You can just click the Restore button, then the LAN Phone 0399 will restore to default and automatically restart again.


Restore Default Settings
You could click the restore button to restore the factory settings.
Restore default settings:
Restore

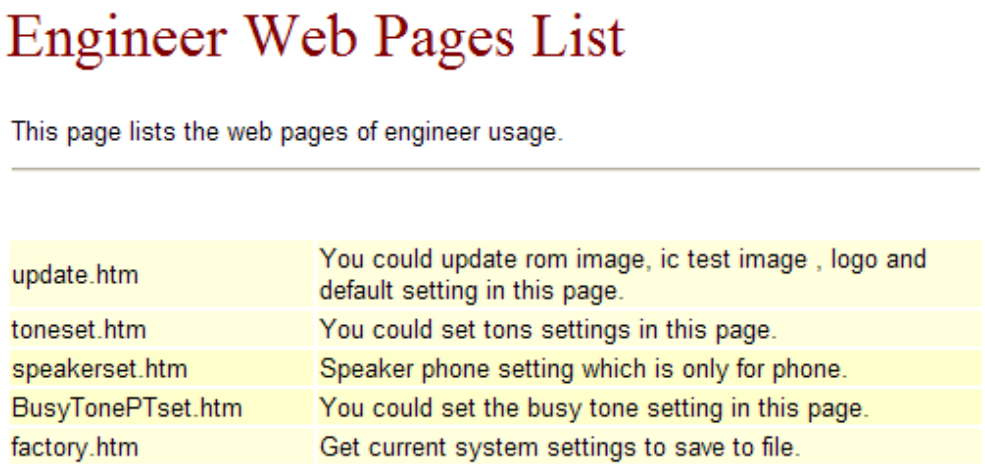
3.12 Reboot

3.12.1 Reboot function you can restart the LAN Phone 0399. If you want to restart the LAN Phone 0399, you can just click the Reboot button, then the LAN Phone 0399 will automatically.

4 Engineering webpage

4.1 Engineer usage webpage list

4.1.1 You have to login the system first then change the webpage manually. In this webpage you will see the list about engineer webpage. You can change the webpage to what you want.



Engineer Web Pages List

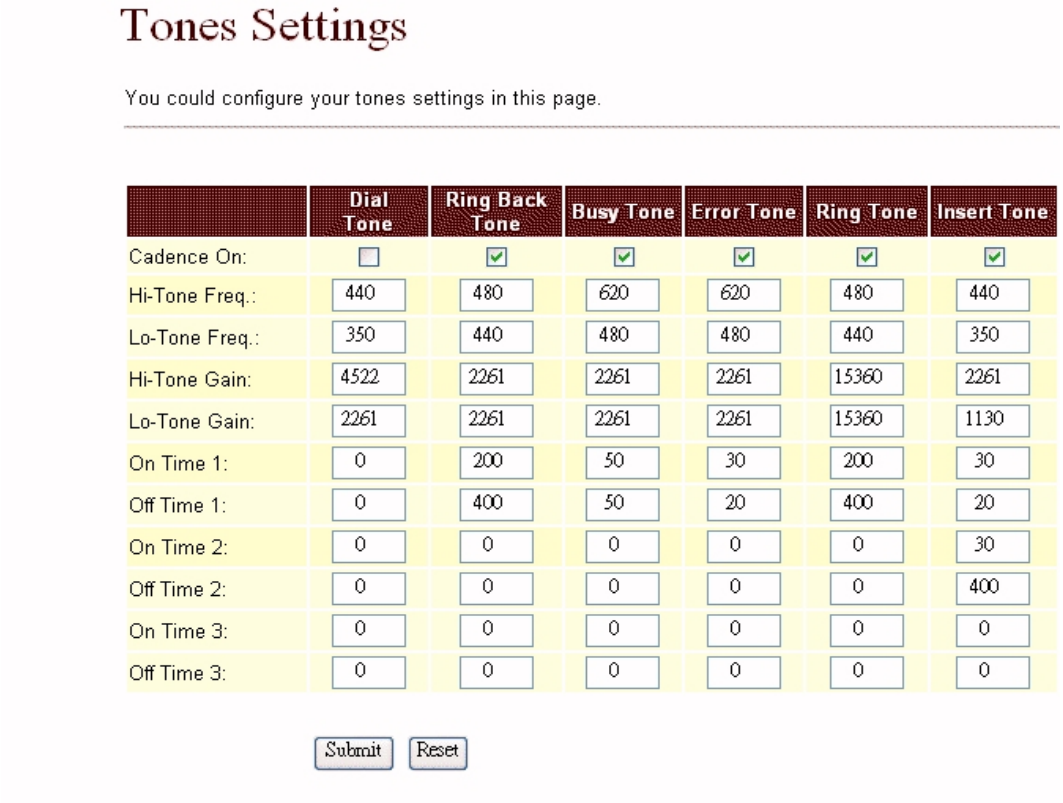
This page lists the web pages of engineer usage.

update.htm	You could update rom image, ic test image , logo and default setting in this page.
toneset.htm	You could set tons settings in this page.
speakerset.htm	Speaker phone setting which is only for phone.
BusyTonePTset.htm	You could set the busy tone setting in this page.
factory.htm	Get current system settings to save to file.

4.2 Toneset.htm

4.2.1 You have to login the system first then change the webpage to toneset.htm manually (http://ip address:9999/toneset.htm).

4.2.2 In this page you can setup the Tone frequency and cadence to meet the requirement.


Tones Settings
You could configure your tones settings in this page.
Dial Tone
Ring Back Tone
Busy Tone
Error Tone
Ring Tone
Insert Tone
Cadence On:
Hi-Tone Freq.: 440 480 620 620 480 440
Lo-Tone Freq.: 350 440 480 480 440 350
Hi-Tone Gain: 4522 2261 2261 2261 15360 2261
Lo-Tone Gain: 2261 2261 2261 2261 15360 1130
On Time 1: 0 200 50 30 200 30
Off Time 1: 0 400 50 20 400 20
On Time 2: 0 0 0 0 0 30
Off Time 2: 0 0 0 0 0 400
On Time 3: 0 0 0 0 0 0
Off Time 3: 0 0 0 0 0 0
Submit
Reset

4.3 Speakerset.htm

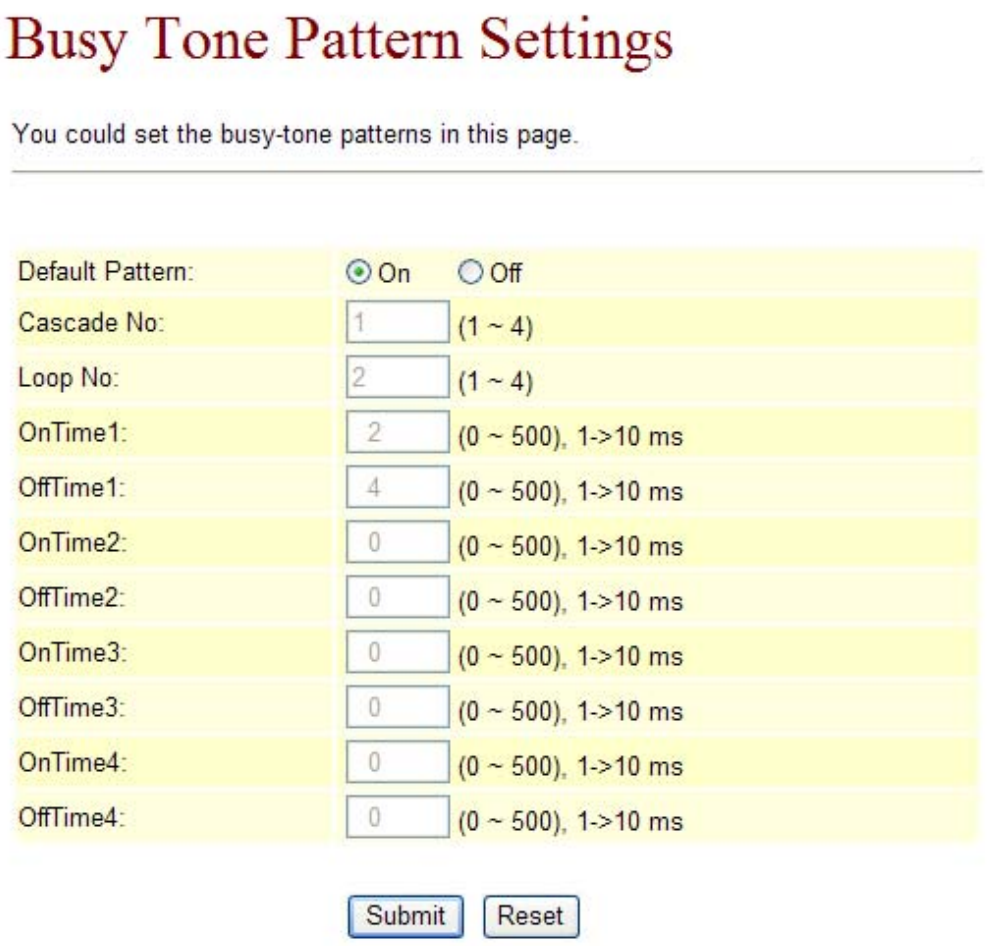
4.3.1 You have to login the system first then change the webpage to speakerset.htm manually (http://ip address:9999/toneset.htm).

4.3.2 In this page you can setup the Speaker function. Default we set the speaker is in half-duplex mode. If you want to set to full-duplex mode, it need to check if your housing is suitable for this function. Or you have to set it as half-duplex mode.

4.4 BusyTonePTset.htm

4.4.1 You have to login the system first then change the webpage to BusyTonePTset.htm manually (http://ip address:9999/BusyTonePTset.htm)

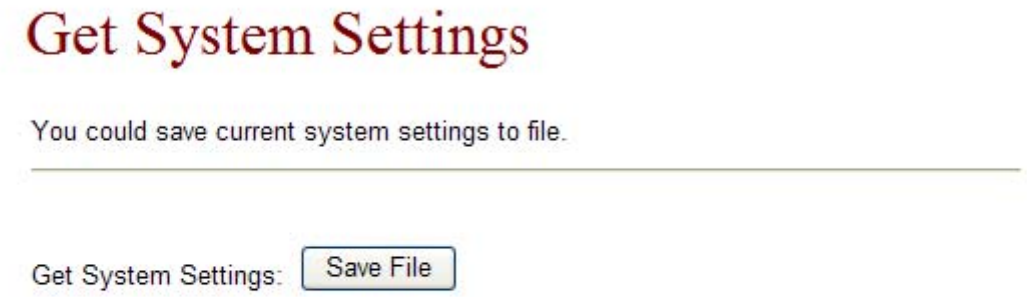
4.4.2 In this page you can set the busy tone setting


Busy Tone Pattern Settings
You could set the busy-tone patterns in this page.
Default Pattern: On Off
Cascade No: 1 (1 ~ 4)
Loop No: 2 (1 ~ 4)
OnTime1: 2 (0 ~ 500), 1->10 ms
OffTime1: 4 (0 ~ 500), 1->10 ms
OnTime2: 0 (0 ~ 500), 1->10 ms
OffTime2: 0 (0 ~ 500), 1->10 ms
OnTime3: 0 (0 ~ 500), 1->10 ms
OffTime3: 0 (0 ~ 500), 1->10 ms
OnTime4: 0 (0 ~ 500), 1->10 ms
OffTime4: 0 (0 ~ 500), 1->10 ms
Submit
Reset

4.5 factory.htm

4.5.1 You have to login the system first then change the webpage to factory.htm manually (http://ip address:9999/factory.htm).

4.5.2 In this page you save your current settings to a file.



4.6 Using CLI command to configure the LAN Phone 0399

4.6.1 CLI command list as below:

Itno	Command	Description
1	?	Show CLI Command
2	arp	ARP Configuration
3	ipconfig	Interface Configuration
4	save	Save to flash
5	reboot	Reboot
6	exit	Exit
7	debugmode	Enter Debug Mode
8	update	Update Flash Code/RAM
9	auth	Change User Name and Password
10	nat	NAT Configuration
11	dns	DNS Configuration
12	ping	ping [-IN] [IP-addr|host-name]
13	sip	SIP Configuration
14	ddns	DDNS Configuration
15	sntp	SNTP Configuration
16	vlan	VLAN Configuration
17	time	Get System Time
18	mactab	Show MAC Learning Table
19	dump	Read/Write Memory
20	book	Edit phone book
21	reload	Reload Factory Setting
22	watchdog	WatchDog Function
23	phone	Phone Setting
24	weblogo	Change Web's logo
25	dsp	Show dsp type
26	addport	Add Nat Port Mapping
27	cid	Select slic Cid
28	slic	read or write slic registers
29	ver	Firmware Version

4.6.1.1 "?" function is to show CLI command list in the screen.

4.6.1.2 arp function

Itno	Command	Description
1	?	Show 'arp' Option
2	-a	Show ARP Table
3	-d	Delete ARP Table
4	-s	Set Static ARP Table
5	(null)	Show ARP Table

4.6.1.3 ipconfig function

Itno	Command	Description
1	?	Show 'ipconfig' Option
2	-if0	Interface 0
3	-if1	Interface 1
4	-if2	Interface 2
5	-h	Set Host Name
6	-a	Set ARP Cache Expire
7	-r	Restore Current Setting
8	(null)	Show IP Setting

4.6.1.3.1 ipconfig –ifN function → N is 0, 1, 2

Itno	Command	Description
1	?	Show 'ipconfig -ifN' Option
2	-t	Set Host Type
3	-m	Set MAC Address
4	-i	Set IP Address
5	-nm	Set Net Mask
6	-g	Set Gateway
7	-dns0	Set Primary DNS server
8	-dns1	Set Secondary DNS server
9	-dr	Set Default Route
10	-nat	Set NAT
11	on	Enable Interface
12	off	Disable Interface
13	-dhcps	DHCP Server Setting
14	-ddns	Set DDNS
15	-bridge	Set Bridge
16	-dev0	Set Device 0 Setting
17	-dev1	Set Device 1 Setting
18	-dev2	Set Device 2 Setting
19	(null)	Show Interface Setting

4.6.1.4 save function

Itno	Command	Description
1	?	Show 'save' Option
2	-book	Save phone book
3	-sys	Save system setting

4.6.1.5 reboot function is to restart the system.

4.6.1.6 exit function is to exit the CLI.

4.6.1.7 debugmode function is to enter the debugmode.

4.6.1.8 update function

Itno	Command	Description
1	?	Show 'update' Option
2	-os	Update OSImage(IP filename)
3	-dsp	Update DSP Image(IP filename)
4	-all	Update All Image(IP filename)
5	-server	Update Server (IP filename length)
6	-pcm	PCM(IP filename)
	-alaw	alaw (IP filename)
	-ulaw	ulaw (IP filename)
	-g729	g729 (IP filename)
	-g723	g723 (IP filename)
	-g726.16	g726.16 (IP filename)
	-g726.24	g726.24 (IP filename)
	-g726.32	g726.32 (IP filename)
	-g726.40	g726.40 (IP filename)

IP is the TFTP server's IP address, and the filename is the image you want to download into the system.

4.6.1.9 auth function

Itno	Command	Description
1	?	Show 'auth' Option
2	-admin	Change Administrator user name/password
3	-sys0	Change System user0 user name/password

4	-sys1	Change System user1 user name/password
5	-sys2	Change System user2 user name/password
6	-sys3	Change System user3 user name/password
7	-sys4	Change System user4 user name/password
8	-norm0	Change Normal user0 user name/password
9	-norm1	Change Normal user1 user name/password
10	-norm2	Change Normal user2 user name/password
11	-norm3	Change Normal user3 user name/password
12	-norm4	Change Normal user4 user name/password
13	-ppp	Change PPP user name/password
14	(null)	Show auth Setting

In each item includes

Itno	Command	Description
1	?	Show ‘auth’ Option
2	-user	Change User Name.’auth -sys3 -user xxx ‘
3	-pass	Change Password. ‘auth -sys3 -pass xxx xxx’
4	(null)	Show auth’s System/PPP Setting

If you want to change the password, you need to type the password twice in the CLI.

4.6.1.10 nat function

Itno	Command	Description
1	?	Show ‘nat’ Option
2	-vs	Set ‘nat -vs’ Option
3	-dmz	Set ‘nat -dmz’ Option
4	(null)	Show NAT Setting

In DMZ item includes

Itno	Command	Description
1	?	Show ‘nat -dmz’ Option
2	on	EnableDMZ
3	off	EnableDMZ
4	-ip	Set DMZ IP address
5	(null)	Show DMZ Setting

4.6.1.11 dns function

Itno	Command	Description
1	?	Show ‘dns’ Option
2	-q	DNS query. dns -q domain-name
3	(null)	Show DNS Table

4.6.1.12 ping function

Itno	Command	Description
1	?	Show ‘ping’ Option
2	-l	ping [-l N] [IP-addr|host-name]
3	(null)	ping [IP-addr|host-name]

4.6.1.13 sip function

Itno	Command	Description
1	?	Show ‘sip’ Option
2	-proxy0	sip -proxy0
3	-proxy1	sip -proxy1
4	-proxy2	sip -proxy2
5	-upnp	sip -upnp on/off/show
6	-exts	sip -exts sip upnp external-port
7	-extr	sip -extr rtp upnp external-port
8	-sipp	sip udp port
9	-rtpp	sip rtp port
10	-stun	sip -stun on/off
11	-rport	sip -rport on/off
12	-sserver	sip -sserver stun-server
13	-out	sip -out outbound-proxy
14	-dump	sip –dump
15	-log	sip -log on/off
16	-drtp	sip -drtp 0/1/2
17	-rtpnc	sip -rtpnc on/off
18	-wanip	sip –wanip
19	-nattype	sip –nattype
20	-hbyrfc	sip –hbyrfc
21	-dereg	sip -dereg
22	-restart	sip -restart
23	-jbt	sip -jitter buffer Threshold
24	(null)	Show SIP Setting

4.6.1.14 ddns function

Itno	Command	Description
1	?	Show ‘ddns’ Option
2	-type	Set DDNS Type
3	-host	Set Host Name
4	-wild	Set Wild Card Mode
5	-mx	Set Mail Exchanger
6	-backmx	Set Mail Exchanger Mode
7	-offline	Set Offline Mode
8	-user	Set Login User Name
9	-pass	Set Login Password
10	(null)	Show DDNS Setting

4.6.1.15 sntp function

Itno	Command	Description
1	?	Show ‘sntp’ Option
2	-on	Enable SNTP Client
3	-off	Disable SNTP Client
4	-ip1	Set SNTP Server1 IP
5	-ip2	Set SNTP Server2 IP
6	-mode	Set SNTP Client Mode
7	-zone	Set GMT Time Zone: [+|-][hour]:[min]
8	-adjust	Set Adjustment Time: [second]
9	(null)	Show SNTP Setting

4.6.1.16 vlan function

Itno	Command	Description
1	?	Show ‘vlan’ Option
2	-tx	Tx Vlan setting
3	-rx	Rx Vlan setting
4	(null)	Show Vlan Setting

4.6.1.17 time function

Itno	Command	Description
1	?	Show ‘Time’ Option
2	-t	Modify Time: hour:min:sec
3	-d	Modify date: year:mon:date
4	(null)	Show Data & Time

4.6.1.18 mactab function is to show MAC learning table.

4.6.1.19 dump function

Itno	Command	Description
1	?	Show ‘dump’ Option
2	-r	dump -r XXXXxxxx
3	-w	dump -w XXXXxxxx XX

4.6.1.20 book function

Itno	Command	Description
1	?	Show ‘book’ Option
2	-a	Show answer list
3	-c	Show call list
4	-s	speed dial
5	-p	phone book

4.6.1.21 reload function is to Reload Factory Setting, please make sure you want to do the factory reset.

4.6.1.22 watchdog function

Itno	Command	Description
1	?	Show ‘WatchDog’ Option
2	on	Enable WatchDog
3	off	Disable WatchDog
4	(null)	Show WatchDog Setting

4.6.1.23 phone function

Itno	Command	Description
1	?	Show ‘phone’ Option
2	-autoanswer	phone auto answer
3	-vol	Volume setting
4	-block	Block Incoming call
5	-ring	Set Melody Ringer
6	-forward	Auto-forward Incall to Phone[0-9] in Book
7	(null)	Show Phone Setting

4.6.1.24 weblogo function

Itno	Command	Description
1	?	Show ‘weblogo’ Option
2	-on	Vender Logo
3	-off	Remove original Logo
4	(null)	Show web logo Setting

4.6.1.25 dsp function is to show dsp code type.

4.6.1.26 addport function is to add Nat Port Mapping

4.6.1.27 cid function

Itno	Command	Description
1	?	Show ‘cid’ Option
2	-off	Disable Slic Cid signal
3	-1	Tx FSK after 1st Ring
4	-2	Tx FSK before 1st Ring
5	-3	Tx DTMF before 1st Ring
6	-4	Tx FSK with Line reversal before 1st Ring
7	-5	Tx DTMF with Line reversal before 1st Ring
8	-time	FSK cid with time message
9	-single	Single type FSK CID
10	(null)	Show Cid Option

4.6.1.28 slic function

Itno	Command	Description
1	?	Show ‘slic’ Option
2	-ring	Issue Ring signal
3	-r	read slic addr
4	-w	write slic addr
5	-a	read all slic reg
6	(null)	Show slic register

4.6.1.29 ver function is to show Firmware Version.

5 Phone function list

When your LAN Phone 0399 is configured properly, you can make a phone call to your friend located in the same service provider. If you want to make a phone call, you can dial the phone number then press "#" button to start to dial the phone number or wait for a while then system will dial the number automatically.

The LAN Phone 0399 provides some functions that list as below:

1. Call Hold: You can push the Hold key to hold the current call for a while, then push Hold key again to keep talking.
2. Call Waiting: When a new call is coming while you are talking, you can push the Flash button to switch to the new call. You can push the Flash button to switch between the two calls.
3. 3-Way Conference: If you want to make a 3-way conference call, you can make a phone call to the first phone number. After the call is established, push the Flash/Hold button then you can hear the Dial tone, then make a phone call to the second phone number. When the second call is established, press the Flash button again.
4. Call Transfer: Current we can support 3 kind of transfer application. Below is the operation method.
   A. Normal Transfer: A call B then transfer to C
      Step 1: A call B
      Step 2: B press "Flash" then A will be held
      Step 3: Make a new call to C
      Step 4: After C answer the call the press "Flash" to complete transfer

   B. 2 way Transfer: A call B then transfer to C but C is busy or C reject transfer then B want the call back to A
      Step 1: A call B
      Step 2: B press "Flash" then A will be held
      Step 3: Make a new call to C
      Step 4: If C is busy or reject then B hang up the phone
      Step 5: Press "Line 1" to restore call with A

   C. Blind Transfer: A call B then transfer to C and do not care about C's situation
      Step 1: A call B
      Step 2: B press "Blind transfer" then A will be held
      Step 3: Make a new call to C
      Step 4: B hang up the phone

5. Redial: User can push the Redial button to dial the last dialed number.
6. Flash: User can push the Flash button to make the IP Phone to dial mode.
7. Speaker Phone: You can use Speaker phone to make a phone call.
8. Pre Dial: User can dial the number first, after finished then raise the handset or push the speaker button; the IP Phone will start to dial.